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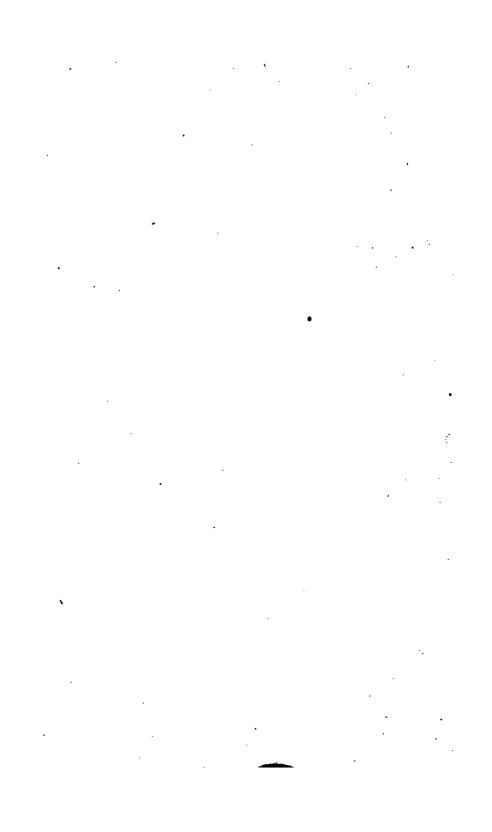






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NAUTICAL ALMANAC

AND ..

ASTRONOMICAL EPHEMERIS,

FOR THE YEAR 1768.

Published by ORDER of the

COMMISSIONERS OF LONGITUDE.



Printed by W. RICHARDSON and S. CLARK,
PRINTERS;

J. Nourse, in the Strand, and Mess. Mount and PAGE, on Tower-Hill,

Bookfellers to the faid COMMISSIONERS.
M DCC LXVII.

[Price Two Shillings and Six Pence.]

EXTRACT from the late Act of Parliament concerning the Longitude, made in the Fifth Year of the Reign of his present Majesty.

HEREAS the Publication of Nautical Almanacks conftructed by proper Perfons, under the Direction of the faid Commissioners, would greatly contribute to make the faid Lunar Tables more generally useful; Be it further Enacted, by the Authority aforefaid, That it shall and may be lawful to and for the faid Commissioners to cause such Nautical Almanacks, or other useful Tables, to be constructed, and to print, publish, and vend, or cause to be printed, published, and vended, any Nautical Almanack or Almanacks, or other useful Table or Tables, which they, or the major Part of them, shall, from time to time, judge necessary and useful, in order to facilitate the Method of discovering the Longitude at Sea; any Law, Statute, exclusive Privilege, private Charter, or other Custom, to the contrary thereof notwithstanding.

And be it Enacted by the Authority aforefaid, That no Person or Persons shall print, publish, or vend, or cause to be printed, published, or vended, any Nautical Almanack or Almanacks, or other Table or Tables confiructed under the Direction of the faid Commissioners, without being first licenfed by the faid Commissioners, or the major Part of them: And if any Person or Persons not so licensed, or not being authorized by the Person or Persons so licensed by the faid Commissioners, shall print, publish, or vend, or cause to be printed, published, or vended, any such Nautical Almanack or Almanacks, or other Table or Tables, every fuch Person or Persons shall, for every Copy of fuch Nautical Almanack or Table fo printed, publifhed, or vended, forfeit and pay the Sum of Twenty Pounds; to be recovered by Action of Debt, Bill, Plaint, or Information, in any of his Majeffy's Courts of Record at Westminster; and that One Morety of such Penalty and Forfeiture shall be to his Majesty, his Heirs and Succesfors, and the other Moiety to him or them that shall profecute, inform, or fue for the fame.

By the COMMISSIONERS appointed by Acts of Parliament for the Difcovery of the Longitude at Sea, and for examining, trying, and judging of all Proposals, Experiments, and Improvements relating to the same.

THEREAS we have employed proper Persons to compute a Nautical Almanac and Aftronomical Ephemeris for the Year 1768, which will greatly contribute to make the Lunar Tables constructed by the late Professor MAYER of Gottingen (which you have already printed with our Authority) more generally useful; and whereas we think fit to employ you to print the faid Nautical Almanac and Aftronomical Ephemeris: We do therefore, in pursuance of the Power vested in us by Act of Parliament, hereby license, authorize, and impower you to cause the same to be printed, together with such other uleful Tables for facilitating the Method of discovering the Longitude at Sea, as shall have been constructed under our Direction, and will be delivered to you by the Reverend Mr. NEVIL MASKELYNE, his Majesty's Aftronomer Royal at Greenwich; and for so doing this shall be your sufficient Warrant. Given under our Hands and Seals this 2d of May 1767.

To Mess. WILLIAM
RICHARDSON and
SAMUEL CLARK,
Printers in Salisburycourt, Fleet-street.

ED. HAWKE	(L.S.)
JOHN CUST	(L.S.)
	(L.S.)
	(L.S.)
	(L.S.)
N. MASKELYNE	
	(L.S.)
	(L.S)
E. WARING	
A. SHEPHERD	L.S.)
G. B. RODNEY	
T. SALUSBURY	
P. STEPHENS	
G. COKBURNE	(L.S.)

By Command of the Commissioners,

JOHN IBBETSON, Secretary.

By the COMMISSIONERS appointed by Acts of Parliament for the Discovery of the Longitude at Sea, and for examining, trying, and judging of all Proposals, Experiments, and Improvements relating to the same.

THEREAS we think fit to employ you to publish and vend, and to cause to be published and vended. the Nautical Almanac and Astronomical Ephemeris for the Year 1768, together with other useful Tables (constructed under our Direction) for facilitating the Method of discovering the Longitude at Sea, which will be printed by Mefficurs RICHARDSON and CLARK of Salifburycourt, Fleet-street: We do therefore, in pursuance of the Power vested in us by Act of Parliament, hereby license. authorize, and impower you to publish and vend, and to cause to be published and vended, the said Nautical Almanac and Astronomical Ephemeris, together with the other useful Tables above-mentioned. For which this shall be your sussicient Warrant. Given under our Hands and Seals this 2d of May 1767. ED. HAWKE /LSA

To Mr. JOHN NOURSE, Bookfeller in the Strand.

The street services

Antonia Silla

TO 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D.O.
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By Command of the Commissioners,

JOHN IBBETSON, Secretary.

A Licence was also granted to the like Effect to Mess.

JOHN MOUNT and THOMAS PAGE, Stationers on Tower-bill.

PREFACE.

Harriag or an a property or life amon - 18.2 Mald

THE Commissioners of Longitude, in purfuance of the Powers vested in them by a late Act of Parliament, present the Publick with the NAUTICAL ALMANAC and ASTRONOMICAL EPHEMERIS for the Year 1768, being the Second Impression, to be continued annually; a Work which must greatly contribute to the Improvement of Astronomy, Geography, and Navigation. This EPHEMERIS contains every Thing effential to general Use that is to be found in any Ephemeris hitherto published, with many other useful and interesting Particulars never yet offered to the Publick in any Work of this Kind, The Tables of the Moon had been brought by the late Professor Mayer of Gottingen to a sufficient Exactness to determine the Longitude at Sea, within a Degree, as appeared by the Trials of feveral Persons who made Use of them. The Difficulty and Length of the necessary Calculations seemed the only Obstacles to hinder them from becoming of general Use: To remove which this EPHE-MERIS was made; the Mariner being hereby relieved from the Necessity of calculating the Moor's Place from the Tables, and afterwards computing the Distance to Seconds by Logarithms, which are the principal and only very delicate Part of the Calculus; fo that the finding the Longitude by

odi lo soldi T. P. R. E. F. A. C. E.

the Help of the Ephemeris is now in a Manner reduced to the Computation of the Time, an Operation equal to that of an Azimuth, and the Correction of the Distance on account of Refraction and Parallax, which is also rendered very easy by either of the Two Methods invented by Mr. Lyons and Mr. Dunthorne, and published among the Tables requisite to be used with the Ephemeris.

By Defire of the Commissioners of Longitude I drew up the Explanation and Use of the Articles contained in the Ephemeris, and the Instructions, with Examples, for finding the Longitude at Sea by the Help of the same. I also collected and calculated the Sixteen First Pages of Tables requisite to be used with the Ephemeris, and computed the Table of proportional Logarithms, which seemed to me absolutely necessary to clear this Method of any remaining Difficulty; and added Explanations of all the Tables, and a Correction, p. 49 and 50, which may be applied by the Curious to the Effect of Refraction on the Moon's Distance from a Star, found by Mr. Lyons, or any other Method, on account of the Barometer and Thermometer.

All the Calculations of the EPHEMERIS relating to the Sun and Moon were made from Mr. MAYER'S last manuscript Tables, received by the Board of Longitude after his Decease, which have been printed under my Inspection, and will be published shortly. The Calculations of the Planets were made from Dr. Halley's Tables; and those of the Eclipses of Jupiter's Satellites from the Tables of Mr. Wargentin, published by M. De la Lande in 1759, except those of the Fourth Satellite.

PREFACE.

lite, which were calculated from the Tables of the same further improved by Mr. WARGENTIN, and published also by M. De LA LANDE in the Connoissance des Mouvements Celestes of 1766.

All the Articles of the EPHEMERIS were computed by Two separate Persons, and examined by a Third, except the Moon's Longitude, Latitude, Right Ascension, Declination, Semidiameter, and Parallax, which, for Noon, were computed by One Person, and for Midnight by another, and the Truth of these Calculations ascertained by means of Differences, which, for the Moon's Longitude, were carried as far as the Fourth Order.

NEVIL MASKELYNE,

ASTRONOMER ROYAL.

ECLIPSES for the Y	EAR 1768:
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June 29. D totally eclipfed: Beginning of the Eclipfe ——	14. 54
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Dec. 31. — 23. 28. 10,4 —	+18,0

1201 JANUARY 1768. [1]						
1 0	1		Phases of the Moon.			
Month.	ays of the Week.	Sundays, Holidays, &c.	D. H. / Full Moon — 3. 16. 16. Last Quarter — 11. 16. 5 New Moon — 19. 6. 4			
1 2	F. Sa.	Circumcision.	First Quarter -25. 23. 32			
3 4 5	Su. M. Tu.	2d Sunday after Christmas	D. 1. Ø eSerpentar. diff. Lat.			
6 7 8 9	W. Th. F. Sa.	Epiphany.	2 n = diff. Lat. 31'. 2. G 3 post ζ & 2 h 3'. 3. G = Π 4 h o'. G eclipfed. — Begin-			
10 11 12	M. Tu.	1st Sunday after Epiph.	ning — 15h 18'. Mid. — 16h 23'\frac{3}{2}. End — 17h 29'\frac{1}{4}. Digits — 4° 9'.			
13 14 15	W. Th. F.	Hilar. Camb. T. begins. Oxford Term begins.	Corp. d of Q 0 ≃ at 16 ^h . (3 II 19 ^h 37'. 6. (₹ & 9 ^h 56'. 7. (π & 0 ^h 50'.			
.16 17 18 19 20	Su. M. Tu. W.	2d Sunday after Epiph. Q. Charlotte's birth-day [kept. Prifca, Fabian, In 8 daysSt. Hil.	15. d o m 4h 17'. Q & 14 7h 58'. 16. d O Ophinchi 5h 35'. 17. d & 2 8h 32'. Q 19h3.			
22 23	Sa.	Agnes. Vincent. Hilary Term begins.	19. O eclipfed; & at 9h; P. M. D's Lat, 51' N. vifible in the northern parts of America.			
24 25	Su. M.	3d Sunday after Epiph. Convertion of St. Paul.	O enters m at 22h 14'. 21. (θ m 9h 22'. 23. 2 e Septentarii diff.Lat.			
26 27 28	W. Th.	From St. Hilary in 15 [days, 2 ret.	52'. 25. (" + 2h 12'. 27. (" Pleid. Im. 12h 16'\frac{1}{2}.			
30	F. Sa.	K. Charles I. martyr.	Em. 12h 31/4. d. L. 12'. 29. (3 post & 8h 28'. 30. (5 II 10h 58'.			
31	Su.	Septuagefima-Sunday.	31. (J II 2h 55%.			

[2]	-	JANU	ARY 1768.
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7, 7, 10, 43 0, 1, 13, 7, 13, 42 0, 19, 7, 16, 43 0, 25, 7, 19, 46 0, 1, 10, 13, 16, 17, 16, 11, 10, 13, 16, 11, 37, 17, 19, 10, 12, 15, 16, 12, 5, 17, 19, 10, 12, 15, 16, 12, 32, 17, 10, 11, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	N 8. 1, 13 4 8. 5, 21 8. 9, 29 3 8. 13, 38 3 S 8. 17, 48 J U P I T 9 6. 20, 56 9 6. 21, 32 9 6. 22, 1 9 6. 22, 25 9 6. 22, 42 S A T U I 3 S 2, 29, 29 3 2, 29, 1	0. 14 N 2 0. 10 2 0. 6 2 0. 2 S 2 0. 2 S 2 E R. 1. 18 N 1. 19 1. 21 1. 22 1. 23 N. 1. 0 S 2 0. 59 2	6. 59 S 7. 10 7. 20 7. 33	21. 2 20. 53 20. 45 20. 38 12 ^d 4 ^h . 18. 30 18. 5 17. 41 17. 17 16. 53
7, 7, 10, 43 0, 1, 13, 7, 13, 42 0, 19, 7, 16, 43 0, 25, 7, 19, 46 0, 1, 10, 13, 16, 17, 16, 11, 10, 13, 16, 11, 37, 17, 19, 10, 12, 15, 16, 12, 5, 17, 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	N 8. 1, 13 4 8. 5, 21 8. 9, 29 3 8. 13, 38 3 S 8. 17, 48 J U P I T 9 6. 20, 56 9 6. 21, 32 6. 22, 1 9 6. 22, 25 9 6. 22, 42 S A T U I 3 S 2, 29, 29 3 2, 29, 1 2, 28, 34	0. 14 N 2 0. 10 2 0. 6 2 0. 2 S 2 0. 2 S 2 E R. 1. 18 N 1. 19 1. 21 1. 22 1. 23 N. 1. 0 S 2 0. 59 2 0. 58 2	6. 59 S 7. 10 7. 20 7. 28 7. 33	21. 2 20. 53 20. 45 20. 38 12 ^d 4 ^h . 18. 30 18. 5 17. 41 17. 17 16. 53
7, 7, 10, 43 0, 1, 13, 7, 13, 42 0, 19, 7, 16, 43 0, 25, 7, 19, 46 0, 1, 10, 13, 16, 17, 16, 11, 10, 13, 16, 11, 37, 17, 19, 10, 12, 15, 16, 12, 5, 17, 19, 10, 12, 15, 16, 12, 32, 17, 10, 11, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	N 8. 1, 13 4 8. 5, 21 8. 9, 29 3 8. 13, 38 5 8. 17, 48 JUPIT N 6. 20, 56 6. 21, 32 6. 22, 1 6. 22, 25 6. 22, 42 SATUB 3 S 2, 29, 29 3 2, 29, 1 2, 28, 34 1 2, 28, 10	0. 14 N 2 0. 10 2 0. 6 2 0. 2 S 2 0. 2 S 2 E R. 1. 18 N 1 1. 19 1. 21 1. 22 1. 23 N. 1. 0 S 2 0. 59 2 0. 58 2 0. 57 2	6. 59 S 7. 10 7. 20 7. 28 7. 33	21. 2 20. 53 20. 45 20. 38 12 ^d 4 ^h . 18. 30 18. 5 17. 41 17. 17 16. 53

	JANUARY 1768. [5]							
上し	WE.			Moon's Lon-	Moon's La-	Moon's		
MYS	NA.	gitu	ide	gitude at Midnight.	titude	Latitude		
of	s of	at N	oon.	Midnight.	at Noon.	at Midn.		
the h.	the	s ·	V 11	S 0 4 11	0 / //	0 1 11		
	Favi		21.39					
	Sa. Su.		2. 15	2. 27. 47. 32 3. 11. 6. 57	2, 41, 11	2. 7.57 0.57.35 N		
4	M.		40. 46		0. 21. 28 N	0.14.21 S		
5	Tu.		36. 5	4. 6. 57. 37	0. 49. 585	1.24.24		
6	W. Th.		15. 9		14 57. 31	2.28.46		
7 8	F.U.		39. 1	5. 1. 45. 58	2. 40. 24	3.25. 3		
9	Sa.		50. 25			4-45-52		
10	Su.		44. 42	The second second second second		5. 8. 6		
11	M.			6. 19. 33. 35	5. 14. 25	5.17.11		
12	Tu. W.		31. 31	7. 1. 31. 22		5.12.40		
13 14	Th.		33- 33			4.54.21		
15	F.		17. 32		4. 0.57	3.36.33		
1	Sa.			\$2.00 m	District Laboratory			
16	Su.	8 28	7. 0	8. 21. 39. 40 9. 5. 1. 41	3. 9. 5	1.30,48		
18	M.	Q. 11.	50. 53	9. 18. 45. 24	0. 54. 05	0.15-55 S		
19	Tu.			10. 2. 48. 42		L 1,44 N		
20	W.			10. 17. 7. 34		2.16.44		
21	Th.			11. 1. 36. 47		3.23.59		
22	F. Sa.	11. 8.	53. 20	0. 0. 42. 13	3. 53. 0	4.18.18		
24	Su.	0. 7	56- 1	0. 15. 7. 39	59. 20	4-55-53		
25	M.	0. 22.	16. 47	0, 29, 22, 53	5. 16. 24	5.13.27		
26	Tu.		25.49			4-53-41		
27	W. Th.		21. 26	1. 27. 14. 1	4. 37. 25	4.17. 6		
28	F.		30. 29		3. 53. 25	2.25.49		
30	Sa.		44. 7		1.52.40	1.18.17		
31	Su.	3. 13.	44- 53	3. 20, 10, 26	0. 43. 11	0. 7.51		

[6]	[6] JANUARY 1768.							
Days of the Month.	Days of the Week.) 's Age.		p's Right Afcen, at Noon.	Afc. at	D's De- clinat, at Noon.) 's De- clin, at Midn.	
1 2 3 4 5	F. Sa. Su. M. Tu.	13 14 15 16	9. 56 10. 54 11. 50 12. 43 13. 32	64. 53 80. 2 94. 57 109. 13 122. 38	87. 33 102, 11 116. 3	25. 12 N 25. 51 24. 57 22. 39 19. 14	25. 43 N 25. 35 23. 58 21. 4 17. 12	
6 7 8 9 10	W. Thi F. Sa.	18 19 20 21 22	14. 17 15. 0 15. 40 16. 20 17. 0	135. 8	141. 6 152. 33 163. 31 174. 15	14.59 10.11 5.6N 0.7S 5.16	12. 38 7. 40 2. 29 N 2. 42 S 7. 46	
11 12 13 14 15	M. Tu. V. Th. F.	23 24 25 26 27	17. 41 18. 25 19. 11 20. 1	190. 27 201. 40 213. 27 225. 59 239. 20	207. 28 219. 37 232. 33	10. 12 14. 47 18. 51 22. 12 24. 35	12. 33 16. 54 20. 37 23. 31 25. 20	
16 17 18 19 20	Sa. Su. M. Tu. W.	28 29 30 1 2	21. 51 22. 48 23. 45 0. 40		275. 33 290. 21 304. 51	25. 46 25. 33 23. 50 20. 39 16. 11	25. 51 24. 53 22. 25 18. 33 13. 33	
21 22 23 24 25	Th. F. Sa. Su. M.	3 4 5 6 7	1. 33 2. 23 3. 13 4. 3 4. 55	339. 2 352. 8. 5. 15	345. 36 358. 41	10. 43 4. 39 S 1. 40 N 7. 52 13. 34	7. 44 1. 30 S 4. 48 N 10. 48 16. 9	
25 27 28 29 30	Tu. W. Th. F. Sa.	8 9 10 11 12	5. 48 6. 43 7. 40 8. 37 9. 33	32. 20 46. 34 61. 15 76. 7 90. 48		18. 29 22. 19 24. 48 25. 49 25. 21	20. 33 23. 44 25. 30 25. 46 24. 34	
31	Su.	13	10. 27	105. 1	111.51	23. 28	22. 5	

-		JA	NUA	RY	1768.		[7]
Days of Month	Days of 1 Week	Semid!,) at Noon,	Semidr. D at Mid- night.	D at	Hor. Par. D at Midnight.	Proport.	Proport, gar. at Mi
the	the	1 11	1 11	1 11	11.1	Lo-	Lo-
3 4	F. Sa. Su. M. Tu.	15. 56 15. 49 15. 40 15. 31 15. 21	15. 53 15. 44 15. 36 15. 26 15. 16	58. 28 58. 2 57. 30 56. 56 56. 21	58. 16 57. 46 57. 14 56. 38 56. 3	4883 4916 4956 4999 5044	4936 4976 5922
7 8 9	W. Th. F. Sa. Su.	15, 12 15, 3 14, 57 14, 52 14, 49	15. 7 15. 0 14. 54 14. 50 14. 49	55. 47 55. 16 54. 50 54. 33 54. 24	55. 31 55. 2 54. 41 54. 28 54. 23	5087 5128 5162 5185 5197	5146 5174 5191
12 13 14	M. Tu. W. Th. F.	14. 49 14. 53 14. 59 15. 7 15. 18	14. 51 14. 55 15. 2 15. 12 15. 24	54. 25 54. 36 54. 58 55. 29 56. 8	54. 30 54. 46 55. 12 55. 48 56. 30	5195 5180 5152 5111 5060	5167 5133 5086
	Su.	15. 30 15. 43 15. 55 16. 6 16. 15	15. 36 15. 49 16. 1 16. 11 16. 18	56. 52 57. 40 58. 25 59. 5	57. 16 58. 3 58. 46 59. 23 59. 50	5004 4944 4887 4838 4798	4915 4861 4816
21 22 23 24 25	Th. F. Sa. Su. M.	16. 21 16. 23 16. 22 16. 19 16. 13	16. 22 16. 23 16. 21 16. 16 16. 10	59. 59 60. 7 60. 4 59. 52 59. 32	60. 4 60. 7 59. 59 59. 43 59. 20	4772 4763 4766 4781 4805	4763 4772 4792
26 27 28 29 30	Tu. W. Th. F. Sa.	16. 7 15. 59 15. 51 15. 43 15. 35	16. 3 15. 55 15. 47 15. 39 15. 30	59. 7 58. 39 58. 10 57. 40 57. 10	58. 54 58. 25 57. 55 57. 25 56. 55	4835 4870 4906 4943 4981	4887 4924 4962
31	Su.	15. 27	15. 22	56.41	56. 25	5018	5038

[8] JANUARY 1768.							
Distances	of D's Cente	r from Stars	, and from G	eaft of her.			
Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.			
E REAL PROPERTY.	011	0 1 11	0 1 11	0 11			
Regulus,	79. 14. 47 65. 34. 58 52. 7. 49 38. 56. 4. 26. 2. 38 13. 34. 34	77. 31. 43 63. 53. 19 50. 27. 57 37. 18. 18 24. 27. 25	75. 48. 49 62. 11. 53 48. 48. 20 35. 40. 50	60, 30, 39 47, 8, 58 34 3, 40			
Spica ng	67. 18, 41 54. 54. 38 42. 45. 25 30. 48. 55 19. 3. 23	53. 22. 41 41. 15. 12 29. 20. 6	39. 45. 11 27. 51. 28	50. 19. 29 39. 15. 21 26. 23. 0			
10 11 Antares, 12	64. 31. 55 52. 42. 33 40. 51. 1		61. 34. 31 49. 45. 4	60. 5.51 48.16.14			
9 10 11 12 13 14 15 16	108. 4, 22 97. 15, 48 86. 24, 59 75, 26, 43 64, 15, 49	106, 43, 15 95, 54, 39 85, 3, 13 74, 3, 38 62, 50, 50 51, 20, 28	116, 12, 28 105, 22, 10 94, 33, 27 83, 41, 18 72, 40, 21 61, 25, 34 49, 52, 43	104. 1. 6 93. 12. 13 82. 19. 15 71. 16. 50 60. 0. 1			
21 22 a Arietis. 23	69. 53. 2 55. 24. 14 40. 57. 38		66. t5. 56 51. 47. 4	64. 27. 21 49. 58. 35			
23 24 Aldeba- 25 ran. 26	73: 42. 41 59: 29. 28 45: 30. 3 31: 53: 23	57. 43. 39 43. 46. 28	55. 58. 5 42. 3. 16	54. 12. 45			
25 28 Pollux.	45. 51, 10	MALE AND	42. 30. 44	40. 50. 57			
Regulus.	55. 53. 10	54. 14. 50	52. 36. 42	64. 7. 44 50. 58. 46 38. 2. 40			

Names.	JANUARY 1768. [9]						
Names	of her.						
72, 23, 29 70, 41, 5 68, 58, 51 67, 1 58, 49, 39 57, 8, 51 55, 28, 17 53, 4 4 4, 29 18, 11, 9 16, 38, 22 15, 24, 54, 42 23, 26, 36 51, 57, 59, 10 56, 24, 54, 42 23, 26, 36 51, 57, 59, 10 56, 24, 54, 42 23, 26, 36 21, 58, 40 20, 21, 58, 40 20, 21, 58, 40 20, 21, 58, 40 20, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 21, 58, 40, 41, 58, 58, 58, 58, 58, 58, 58, 58, 58, 58	Iours.						
2	, ,,						
7 Spica III 48. 48. 13 47. 17. 12 45. 46. 24 44. 136. 45. 42 35. 16. 15 33. 46. 58 32. 19 24. 54. 42 23. 26. 36 21. 58. 40 20. 10 11 Antares. 58. 37. 12 57. 8. 33 55. 39. 54 54. 46. 47. 21 45. 18. 24 43. 49. 21 42. 20 10 10 10 10 10 10 10 10 10 10 10 10 10	16, 49 47, 56 34, 6 38, 10 6, 10						
9 113, 29, 27 112. 8. 4 110, 46, 46 109, 2 102, 40, 4 101, 19, 2 99, 57, 59 98, 3 11 12 The Sun. 80, 57, 4 79, 34, 45 78, 12, 15 76, 4 58, 34, 11 57, 8, 4 55, 41, 39 54, 1	26. 47 15. 48 17. 51 30. 55						
10 102. 40. 4 101. 19. 2 99. 57. 59 98. 3 91. 50. 56 90. 29. 35 89. 8. 9 87. 2 13 80. 57. 4 79. 34. 45 78. 12. 15 76. 4 69. 53. 7 68. 29. 10 67. 4, 58 65. 4 58. 34. 11 57. 8. 4 55. 41. 39 54. 1	11. 13						
15 46, 56, 13 45, 27, 27 43, 58, 21 42, 3	25, 32 36, 54 46, 37 49, 34 40, 31 14, 55 28, 53						
	45.34						
24 Aldeba- 52. 27. 39 50. 42. 48 49, 58. 14 47.	15. 30 13. 59 33. 42						
27 Pollux. 52. 35. 11 50. 53. 47 49. 12. 40 47.	5·43 31.47 14.49						
30 Regulus. 49. 21. 2 47. 43. 28 46. 6. 7 44.	31. 42 28. 59 39- 59						

E	[10] JANUARY 1768.							
300	Diffances	of D's Cente	er from Stars	, and from o	west of her.			
Day	Stars Names	Noon.	3 Hours.	6 Hours,	9 Hours.			
S	100	0 1 11	0 1 11	a / H	0111			
1 2 3	a Arietis.	33, 16, 27 46, 50, 46 60, 15, 32		36. 40. 37 50. 13. 1	38. 22. 35 51. 53. 54			
3 4 5 6	Aldeba- ran.	28. 46. 7 41. 28. 27 54. 8. 25 66. 37. 8	30. 20. 57 43. 3. 52 55. 42. 43 68. 9. 47	31. 55. 59 44. 39. 11 57. 16. 49 69. 42. 12	46. 14. 24			
7 8	Pollux.	36. 50. 32. 48. 51. 29	38. 21. 6 50. 21. 1	39. 51. 33 51. 50. 25	41. 21. 53. 53. 19. 42			
10 11 12	Regulus.	23. 43. 38 35. 30. 23 47. 16. 47 59. 6. 22	25. 12. 1 36. 58. 38 48. 45. 13 60. 35. 35	26. 40. 24 38. 26. 54 50. 13. 43 62. 4. 55	28. 8. 47 39. 55. 10 51. 42. 17 63. 34. 22			
13 14 15 16 17 18	Spica 収	17. 11. 10 29. 14. 45 41. 39. 54 54. 27. 19 67. 38. 16 81. 12. 40	18. 40. 17 30. 46. 45 43. 14. 36 56. 4. 52	20. 9. 50 32. 19. 4 44. 49. 39 57. 42. 47	21. 39. 47 33. 51. 43 46. 25. 3 59. 21. 5			
22 23 24 25 26 27 28	The Sun.	50. 28. 31 63. 54. 9 77. 10. 28 90. 15. 8	65, 34, 15 78, 49, 13 91, 52, 21 104, 42, 54	93. 29. 22	55. 31. 31. 68. 53. 58 82. 6. 9. 95. 6. 12. 107. 53. 33			
26 27 28	a Pegafi.	47. 9. 2 60. 18. 11 73. 25. 47	48. 47. 26	50. 25. 56	52. 4. 32			
28	a Arietis.	30. 0. 35 43. 20. 18 56. 30. 56	44. 59. 41					
31		25. 14. 49 37. 39. 16			29, 51, 46- 42, 20, 46			

	JANUARY 1768. [11]						
	Distances	of D's Cente	er from Stars	, and from (well of her		
Day	Stars Names.	12 Hours.	15 Hours.	18 Hours,	21 Hours.		
S.	2 valifies.	0 1 11	0 1 11	0 / //	0 1 11		
1 2	a Arietis.	40. 4. 28 53. 34. 37	41. 46. 14 55. 15. 9	43. 27. 52. 56. 55. 28	45. 9. 23 58. 35. 36		
3456	Aldeba- ran.	35. 6. 31 47. 49. 31 60. 24. 26 72. 46. 25	36. 41. 58 49. 24. 29 61. 57. 55		39. 52. 58 52. 33. 56		
6 7 8	Pollux,	30. 47. 28 42. 52. 6 54. 48. 53	32. 18. 20 44. 22. 9	45. 52. 3	35- 19. 52 47- 21- 50		
8 9 10 11 12	Regulus.	17. 50. 22 29. 37. 10 41. 23. 26 53. 10. 55 65. 3. 53	19. 18. 38 31. 5. 30 42. 51. 43 54. 39. 37	20. 46. 57 32. 33. 48 44. 20. 2 56. 8. 26	22. 15. 17 34. 2. 6 55. 48. 24 57. 37. 21		
12 13 14 15 16	Spica m	11. 20, 32 23. 10, 6 35, 24, 42 48. 0, 48 60, 59, 46 74, 22, 36	12. 47. 9 24. 40. 45 36. 57. 59 49. 36. 53 62. 38. 50 76. 4. 35	14. 14. 31 26. 11. 44 38. 31. 37 51. 13. 20 64. 18. 16 77. 46. 55	40. 5. 35 52. 50. 9 65. 58. 5		
22 23 24 25 26 27 28	The Sun.	43. 43. 20 57. 12. 18 70. 33. 36 83. 44. 20 96. 42. 49 109. 28. 35 122. 1. 37	45. 24. 45 58. 52. 58 72. 13. 5 85. 22. 19 98. 19. 14	47. 6. 6 60. 33. 30 73. 52. 23 87. 0. 7	48. 47. 21 62. 13. 54 75. 31. 31 88. 37. 43 101. 31. 27		
27	a Pegafi.	53. 43. 12 66. 52. 43	55. 21. 56 68. 31. 10	57. 0. 40 70. 9. 29	58. 39. 25 71. 47. 42		
28 29	a Arietis.	36. 41. 16 49. 56. 53		40. I. 2 53. I4. I4	41. 40. 44 54. 52. 40		
30 31	Aldeba- ran.	31. 24. 51 43. 54- 37	32. 58. 13 45. 28. 26	34. 31. 47 47. 2. 12			
			P	1	411		

[12] SJANU	AR	Y 17	68.1		
The state of the s	300	OF REAL PROPERTY.	T Is. R	7 1	217
Configurations of the S	ATELL	ITES of	JUF	IT	ER
at 2 o'th' C	lock in	the Morni	ng.	28,	自自
7.5 1-11	.10	.2			213
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29 3.	0	4-		3	100
30	4.0	1. 4		alone I	
31 20 4.	.1 0	-3	6		

	FEBRUARY 1768. [13]						
Days of the Menth.	Days of the Week,	Sundays, Holidays, &c.	Phases of the Moon. D. H. / Full Moon — 2. 8. 38				
1 2 3 4 5	M. Tu. W. Th. F.	Purification of V. Mary. Blas. On morrow of Pur. [3 ret.					
6 7 8 9	Sa. Su. M. Tu. W.	Sexagefima-Sunday. In 8 days of Pur. [4 ret.	6. 1 Stationary.				
11 12 13 14 15	Th. F. Sa. Su. M.	Hilary Term ends. Quinquagefima or Shrove [Sunday. Valentine.	11. (\sigma M 13h 17'. (\alpha M \text{Im. 15h 50'\frac{1}{2}}. \text{Em. 17 5.} vis. Lat. \(\rac{1}{2} \) \(\frac{1}{2} \) \(\				
16 17 18 19 20	Tu. W. Th. F. Sa.	Afh-Wednefday.	Q o \mathcal{I} diff. Lat. 50°. 14. Q π \mathcal{I} diff. Lat. 12°. 17. \mathcal{I} $\theta = 19^h$ 15°. 18. Θ enters \mathcal{H} at 13 ^h 8°. 21. \mathcal{I} π \mathcal{H} 9 ^h 17. 23. \mathcal{I} π Pleiadum 16 ^h 53°.				
21 22 23 24 25	Su. M. Tu. W. Th.	ift Sunday in Lent. St. Matthias.	25. (3 post & 13 h 55. 26. (= II 16h 35'. 27. In Stationary. (II 8h 39'.				
26 27 28 29	F. Sa. Su. M.	2d Sunday in Lent.					
			- "				

14		FEBR	The second second	and the same of the same of the same of		
Days of the Month.	Days of the Week.	Sun's Longitude.	Right Afc.	Sun's Declination South.	of Time	Diff.
3 4 5	M. Tu. W. Th. F.	10, 12, 15, 54 10, 13, 16, 43 10, 14, 17, 30 10, 15, 18, 16 10, 16, 19, 0	21. 3. 0 21. 7. 3 21. 11. 6	16. 51. 19 16. 33. 50 16. 16. 3	14.11,7 14.18,2 14.24,0	7,3 6,5 5,8 4,9 4,1
6 7 8 9 10	Sa. Su. M. Tu. W.	10, 17, 19, 44 10, 18, 20, 27 10, 19, 21, 7 10, 20, 21, 48 10, 21, 22, 27	21. 23. 8 21. 27. 7 21. 31. 5	15. 39. 40 15. 21. 4 15. 2. 12 14. 43. 6 14. 23. 44	14.36,3 14.38,8 14.40,6	3,3 2,5 1,8 1,0
11 12 13 14 15	Th. F. Sa. Su. M.	10. 22. 23. 5 10. 23. 23. 42 10. 24. 24. 17 10. 25. 24. 51 10. 26. 25. 25	21. 42. 55 21. 46. 51 21. 50. 45	13. 44. 18 13. 24. 15 13. 3. 59	14.41,3 14.40,0 14.38,0	0,5 1,3 2,0 2,7 3,5
16 17 18 19 20	Tu. W. Th. F. Sa.	10. 27. 25. 56 10. 28. 26. 26 10. 29. 26. 54 11. 0. 27. 22 11. 1. 27. 46	22, 2:24 22, 6, 16 22, 10, 7	12. 1.54	14.27,6 14.22,7 14.17,2	4,2 4,9 5,5 6,3 7,0
21 22 23 24 25	Su. M. Tu. W. Th.	11. 3. 28. 31 11. 4. 28. 49 11. 5. 29. 6	22. 21. 36 22. 25. 24 22. 29. 11	10. 36. 30 10. 14. 44 9. 52. 48 9. 30. 44 9. 8. 31	13.56,4 13.48,1 13.39,2 13.29,7	7.5 8,3 8,9 9.5
26 27 28 29	F. So. Su. M.	11. 8. 29. 44	22. 40. 31	8. 1. 7	13,19,6 13. 8,8 12.57,5 12.45,7	10,8 11,3 11,8

	FEBRUARY 1768. [15]							
Days of the Month.	matter of	Time of Dopassing the Meridian.	Hourly Motion of the Sun,	Logarithm of the Sun's Diftance.	Place of the Moon's Node.			
2	1 1	1 10	2 1	(3) 15 s) (5)	s 70 L'			
1 7 13 19 25	16. 16, 5 16. 15, 6 16. 14, 4 16. 13, 1 16. 11, 7	1. 7, 4 1. 6, 7 1. 6, 1	2. 31,0	1 11011	9. 20, 30 9. 20, 11 9. 19. 52 9. 19. 33 9. 19. 14			

Ecliples of the SATELLITES of JUPITER.

I. Satellite. Immerfions.	II. Satellite. Immersions.	III. Satellite.		
Days h ' " 2 7. 12. 11 4 1. 40. 20 5 20. 8. 35 7 14. 36. 51 9 9. 5. 13 11 3. 33. 35 12 22. 2. 1 14 16*30. 26 16 10*58. 59 18 5. 27. 31 19 23. 56. 7 21 18*24. 43 23 12*53. 24 25 7. 22. 3 27 1. 50. 47 28 20. 19. 33	Days h ' ' 3 0.56.3 6 14*12.10 10 3.28.31 13 16*44.59 17 6.1.37 20 19.18.27 24 8.35.22 27 21.52.26	Days h '" 2 17*56. 42 I 2 20. 21. 12 E 9 21. 53. 58 I 10 0. 17. 24 E 17 1. 51. 58 I 17 4. 14. 19 E 24 5. 50. 37 I 24 8. 11. 52 E IV. Satellite.		

[16] F	EBR	UAR	Y	768.	
Days	Heliocen- tric Lon- gitude.	Heliocen- tric Lati- tude.			nation	Paffage over Merid,
	. 0 /	10 /	5 0 1	0 /	01	p A
67	170 miles	ME	RCUF	Y. 1	up. 8 16	5d 15".
	9. 6. 29		10, 1, 9		21. 42 S 19. 26	23. 19 23. 36
13	10. 14. 23	6,59	10, 21, 28	2. 4	16. 9	23. 54
	0. 5. 7	6. 30	11. 13. 45		7, 30	0. 29
	Hall Of	1	ENU	S.	131	WI
1						
7	7. 0. 20	2. 44	9. 3. 57	1.47	21. 15	20. 56
19	7. 9.57	1.56	9. 17. 50	1. 24	20. 53	21. 8
217	13219	7:1	MARS	COLUMN TO A STATE OF THE PARTY.		-01
-1	1 7: 23: 2.	1 0. 95	1 8, 22, 41	o. 75	123. 24 S	120. 28
7	A STATE OF THE PARTY OF		8. 26. 54		23. 39	20. 23
19	8. 2.4	0. 28	9. 5.21	0.23	23. 46	20, 12
2.5	8. 6.	0.34	9. 9. 35	0. 29	23.35	20. 8
	Acres	-	UPITI		476	
7	The same of the sa		6. 22. 53		7. 35 S	16. 25
13			6. 22. 51		7. 32	15-37
13	6. 14. 2	5 1.19	6. 22. 51 6. 22. 40 6. 22, 22	1. 30	7. 32 7. 26 7. 18	15. 13
19	6. 14. 2	1. 19	6. 22. 40	1. 30	7. 26	15. 13
25	6. 14. 2	S 1. 19 S 2 0. 50 S	6. 22, 40 6. 22, 22 A T U R	1. 30 1. 31 N.	7. 26 7. 18	15. 13
19 25	6. 14. 2 6. 14. 5	S 2 0, 50 S 5 0, 49	6. 22. 40 6. 22. 22 A T U R	1. 30 1. 31 N. 0. 55 S 0. 54	7. 26 7. 18	15. 13 14. 49 8. 49 8. 24
25	3. 1. 5 7 3. 2. 3 3. 2. 1 9 3. 2. 3	S 2 0, 50 S 5 0, 49 9 0, 49 2 0, 49	6. 22, 40 6. 22, 22 A T U R	N. 0. 55 S 0. 54 0. 53 0. 52	7. 26 7. 18	15. 13

	FEBR	UAR	Y 1768.	[17]
Days of Month		Moon's Lon gitude at Midnight.	titude at	
the	S º / //	S ° 1 11	0 / //	0 1 11
1 M 2 T 3 W 4 T 5 F.	4. 9. 9. 34 4. 21. 34. 53 h. 5. 3. 49. 55	4. 15. 23. 33 4. 27. 43. 39 5. 9. 54. 0	1. 35. 15 2. 37. 35 3. 31. 39	1. 1. 47 S 2. 7. 17 3. 5. 47 3. 54. 56 4. 33. 0
6 Sa 7 Su 8 M 9 To	6. 9. 48. 12 6. 21. 39. 54 1. 7. 3. 33. 26	6. 15. 44. 3 6. 27. 36. 9 7. 9. 32. 8	5. 6. 56 5. 13. 6 5. 5. 55	4. 58. 50 5. 11. 39 5. 11. 11 4. 57. 18 4. 30. 12
11 T! 12 F. 13 Sa. 14 Su 15 M	8. 10. 9. 2 8. 22. 54. 54 9. 6. 4. 26	8. 3. 53. 53 8. 16. 29. 12 8. 29. 26. 28 9. 12. 49. 1 9. 26. 38. 28	3. 25. 50 2. 28. 31 1. 21. 51	3. 50. 15 2. 58. 32 1. 56. 14 0. 45. 46 S 0. 29. 32N
16 Tu 17 W 18 Th 19 F. 20 Sa.	10. 18. 10. 33 1. 11. 2. 57. 38 11. 17. 56. 35	10. 10. 54. 3 10. 25. 32. 6 11. 10. 26. 13 11. 25. 27. 37 0. 10. 26. 43	2. 21. 30 3. 27. 28 4. 19. 59	
21 Su 22 M 23 Tu 24 W 25 Th	1. 2. 32. 59 1. 16. 53. 33 2. 0. 52. 5	1. 9. 45. 57	5. 3. 0 4. 37. 49 3. 56. 39	5. 8. 36 4. 52. 39 4. 19. 3 3. 31. 8 2. 32. 43
26 F. 27 Sa. 28 Su. 29 M.	3. 10. 41. 13	3. 4. 14. 42 3. 17. 3. 56 3. 29. 39. 10 4. 12. 3. 8	o. 53. 42 N	1. 27. 36 0. 19. 27N 0. 48. 12 S 1. 52. 28
Mark.	195	ALC: N	15 6	2

[18]		F	EBR	UA	RY	768.	
Days of the Month.	Days of the Week.	D's Age.		D's Right Afcen. at Noon.	Afc. at	D's De- clination at Noon.	clination
1 2 3 4 5	M. Tu. W. Th. F.	14 15 16 17 18	11. 17 12. 4 12. 46 13. 28 14. 9	118. 29 131. 10 143. 6 154. 27 165. 24	137. 13	20, 26 N 16, 27 11, 51 6, 50 1, 38 N	18. 32 N 14. 13 '9. 22 4. 14 N 0, 59 S
6 7 8 9 10	Sa. Su. M. Tu. W.	19 20 21 22 23	15. 30 16. 12 16. 57	176. 10 186. 58 198. 1 209. 30 221. 36	181. 33 192. 27 203. 42 215. 28 227. 54	3. 34 S 8. 35 13. 17 17. 30 21. 4	6. 6 10. 59 15. 28 19. 22 22. 32
11 12 13 14 15	Th. F. Sa. Su. M.	24 25 26 27 28	19. 30 20. 26 21. 23	234. 24 247. 58 262. 9 276. 41 291. 19	241. 6 255. 0 269. 23 284. 1 298. 34	23. 46 25. 23 25. 45 24. 41 22. 10	24. 43 25. 44 25. 24 23. 36 20. 22
16 17 18 19 20	Tu. W. Th. F. Sa.	29 1 2 3 4	o. 8	305. 46 319. 52 333. 39 347. 13 0. 45	312, 52 326, 48 340, 27 353, 58 7, 35	18. 15 13. 9 7. 12 0. 47 S 5. 41 N	15. 50 10. 15 4. 2 S 2. 28 N 8. 48
21 22 23 24 25	Su. M. Tu. W. Th.	56	3. 41 4. 37 5. 34	14. 28 28. 32 43. 1 57. 49 72. 46	21. 27 35. 43 50. 23 65, 18 80. 10	11. 47 17. 7 21. 20 24. 13 25. 36	14. 34 19. 23 22. 57 25. 6 25. 43
26 27 28 29	F. Sa. Su. M.	12	8. 23 9. 14	87. 30 101. 42 115. 12 127. 54	94. 41 108. 33 121. 39 133. 59	25, 28 23, 56 21, 12 17, 31	24. 52 22. 42 19. 28 15. 24
-	_	1				6.15	

FEBRUARY 1768. [19]							
Semide. Semide. D Hor. Par. Hor. Par. 13 719 7							
Month	week	D at Noon.	at Mid- night.	D at Noon.	D at Midnight	nat N	roport,
the	the	1 11	1 11	1 11	1 11	oon.	idn.
3 4 5	M. Tu. W. Th. F.	15. 18 15. 11 15. 3 14. 57 14. 52	15. 14 15. 7 15. 0 14. 55 14. 50	56. 10 55. 42 55. 16 54. 52 54. 34	55. 56 55. 28 55. 4 54. 43 54. 27	5094 5128 5159	5076 5112 5144 5171 5193
6 7 8 9	Sa. Su. M. Tu, W.	14. 49 14. 47 14. 48 14. 51 14. 57	14. 48 14. 47 14. 49 14. 54 15. 1	54. 21 54. 15 54. 18 54. 30 54. 53	54. 17 54. 16 54. 23 54. 40 55. 7	5201 5208 5204 5188	5206 5207 5198 5175 5140
12 13 14	Th. F. Sa. Su. M.	15. 6 15. 17 15. 30 15. 45 16. 0	15. 11 15. 23 15. 38 15. 53 16. 7	55. 25 56. 6 56. 55 57. 49 58. 43	55· 44 56. 29 57· 21 58. 16 59. 9	5063 5001 4932	5091 5033 4967 4898 4833
17 18	Tu. W. Th. F.	16. 14 16. 25 16. 33 16. 36 16. 35	16. 20 16. 30 16. 35 16. 36 16. 33	59. 34 60. 16 60. 44 60. 57 60. 52	59. 56 60. 32 60. 53 60. 57 60. 44	4752 4718 4703	4776 4733 4708 4703 4718
22 23 24	Su M. Tu. W Th.	16. 30 16. 22 16. 11 15: 59 15: 47	16. 26 16. 16 16. 5 15. 53 15. 42	60. 33 60. 2 59. 23 58. 40 5.7. 56	59. 1	4769 4816 4869	4843
27	F. Sa. Su. M.	15. 36 15. 26 15. 17 15. 8	15. 31 15. 22 15. 12 15. 4	57. 15 56. 37 56. 3 55. 32	56.19	4975 5023 5067 5107	5046
	1	1000	F 199	117 121	2-1		

[26] FEBRUARY 1768							
	Viltances o	b's Center from Stars, and from @ earl of	ner				
	Stars Names.	Noon. 3 Hours. 6 Hours. 9 Hour	200				
	V- 2	10 1 11 0 10 11 10 10 11 10 1111	11				
1 2	legulus.	30. 4. 52 28. 30. 1 26. 55. 25 25. 21. 17. 34. 31 16. 2. 38 14. 31. 22 13. Q.	5 46				
41	ipica m	58. 58. 54 46. 44. 46 45. 13. 48 43. 43. 0 42. 12. 11 31. 42. 45 32. 49. 42 21. 21. 30 19. 53. 33 18. 25.	22				
- ×	Antares. 8	56. 30. 37 55. 2. 0 53. 33. 23 52. 4. 44. 41. 54 43. 13. 18 41. 44. 39 40. 15. 32. 51. 26 31. 22. 17 29. 53. 2 28. 23. 20. 54. 41 19. 24. 24 17. 53. 57 16. 23.	57 40				
10	The Sun.	117. 33. 45 116. 12. 46 114. 51. 46 113. 30. 106. 44. 16 105. 22. 44 104. 1. 5 102. 39. 95. 48. 16 94. 25. 33 93. 2. 38 91. 39. 84. 40. 37 83. 16. 8 81. 51. 22 80. 26. 73. 16. 31 71. 49. 35 70. 22. 18 68. 54. 61. 31. 7 60. 1. 17 58. 31. 4 57. 0. 49. 21. 15 47. 48. 10 46. 14. 40 44. 40.	19 32 21 41 27				
21	Aldeba- ran,	79. 7. 10 77. 16. 5 75. 25. 3 73. 34 64. 20. 39 62. 30. 26 60. 40. 25 58. 50. 49. 45. 21 47. 57. 15 46. 9. 34 44. 22. 35. 33. 13 33. 49. 7 32. 5. 43 30. 23. 22. 5. 13	34				
23 24 25	Pollux.	62. 49. 29 61. 4. 33 59. 19. 59 57. 35. 49. 0. 27 47. 18. 30 45. 36. 56 43. 55. 35. 36. 9					
25 26 27 28 29	Regulus,	72. 8. 48 70. 28. 22 68. 48. 13 67. 8. 58. 53. 24 57. 15. 15 55. 37. 23 53. 59. 45. 55. 48 44. 19. 46 33. 14. 27 31. 40. 22 30. 6. 32 28. 32. 20. 49. 23 19. 17. 36 17. 46. 13 16. 15.	47 26 58				

FEBRUARY 1768; [21] Distances of p's Center from Stars, and from O east of her.						
156	Distances	of D's Cente	r from Stars,	and from C	call of her-	
Days	Stars	12 Hours.	15 Hours.	18 Hours.	21 Hours:	
15.	Names.	0 1 11	0 1 11	9 1 11	0 1 11	
1 2	Regulus.	23. 47. 3 11. 30. 54	22. 13. 19	20, 39, 57	19. 6. 59	
2 3 4 5 6	Spica W	65. 10. 25 52, 50. 22 40. 41. 54 28. 44. 23 16. 58. 29	51, 18, 42 39, 11, 37 27, 15, 26	62, 4, 17 49, 47, 13 37, 41, 30 25, 46, 39 14, 4, 56	48, 15, 54 35, 11, 33 24, 18, 5	
78 9	Antares.	50, 36, 13 38, 47, 12 26, 54, 11 14, 52, 30	49. 7. 39 37. 18. 23 25. 24. 32	47. 39. 4 35, 49. 28 23. 54. 44	34. 20. 30	
78 9 10 11 12 13 14	The Sun.	112, 9, 34 101, 17, 25 90, 16, 14 79, 1, 6 67, 26, 43 55, 29, 27 43, 6, 27	65. 58. 22 53. 58. 1	98. 33. 10 87. 28. 54 76. 9. 23 64. 29. 39 52. 26. 10	108. 5. 43 97. 10. 48 85. 4. 53 74. 43. 5 63. 0. 34 50. 53. 53	
19 20 21 22	Aldeba- ran.	71. 43. 8 57. 0. 55 42. 35. 26 28. 41. 18	55. 11. 34 40. 49. 2	53. 22. 31	37. 17. 56	
23	Pollux.	55. 51. 58 42. 15. 0	54. 8. 31 40. 34. 39		50. 42. 46 37. 15. 13	
28	Regulus.	65. 28. 48 52. 22. 27 39. 33. 8 26. 59. 40 14. 44. 58	50. 45. 24 37. 58. 6	62. 10. 32 49. 8. 37 36. 23. 18 23. 53. 57 11. 46. 31	60. 31. 50 47. 32. 4 34. 48. 45 22. 21. 31 10. 18. 59	

[22] FEBRUARY 1768,							
D:	flances of	n's Center	from Stars, a	and from O	west of her.		
Days.	Stars	Noon.	3 Hours.	6 Hours.	9 Hours.		
ys.	Names.	0 7 11	0 1 11	9 11 11	in Solution		
1 2	Aldeba- ran.	50. 9.29 62.34.46	51. 43. 3 64. 7. 20	53. 16. 30 65. 39. 45	54, 49, 51 67, 1e, 1		
3 4	Pollax	32, 50, 23 44, 53, 58		35. 51. 38 47. 54 3			
56 78 9	Regulus.	19. 52. 1 31. 41. 47 43. 29. 22 55. 15. 55 67. 4. 52	21, 20, 43 33, 10, 22 44, 57, 41 56, 44, 18 68, 33, 53	22. 49. 27 34. 38. 54 46. 25. 59 58. 12. 45 70. 3. 0			
10 11 12 13 14	Spica nx	25. 2. r 0 37. 6. 39 49. 29. 37 62. 14. 51 75. 25. 20	26. 31. 47 38. 38. 25 51. 3. 59 63. 52. 12	40. 10. 30 52, 38, 42	41. 42. 52 54. 13. 47		
14 15 16	Antares.	29. 40. 11 43. 19. 2 57. 25. 3	45. 3. 20	33. 2. 17 46. 48. 3 61. 0. 29	48. 33. 12		
21 22 23 24 25 26	The Sun.	45, 38, 13 59, 12, 28 72, 28, 16 85, 23, 39 97, 58, 20 110, 13, 31 122, 11, 13	60. 53. 1 74. 6. 21 86. 59. 6 99. 31. 16	62, 33, 16 75, 44, 6 88, 34, 14 101, 3, 53	50. 45. 31 64. 13. 14 77. 21. 32 90. 9. 3 102. 36. 13 114. 44. 39		
25		40. 21. 5 53. 32. 37	42. 0. 52 55. 10. 27	43. 40. 24 56. 48. 3	45. 19. 43 58. 25. 25		
	Aldeba- ran.	34. 40. 41 47. 2. 40 59. 19. 51 71. 30. 10	60. 51. 33	37. 46. 15 50. 7. 34 62. 23. 9	51. 39. 52		

1	FEBRUARY 1768. [23]						
	Distances	of p's Cente	r from Stars,	and from @	west of her.		
Days.	Stars Names.	12 Hours.		-			
1 2	Aldeba- ran.	56, 23. 5 68. 44. 6	57. 56. 12	59. 29. 11	61. 2. 3		
3 4	Pollux.	26. 48. 0 38. 52. 45 50. 53. 45	40. 23. 11	41. 53. 31			
456 78 9	Regulus.	13. 58. 27 25. 46. 59 37. 35. 50 49. 22. 34 61. 9. 48 73. 1. 33		40. 32. 40	30. 13. 8		
9 10 11 12 13	Spica mg	19. 6. 26 31. 2. 14 43. 15. 33 55. 49. 14 68. 46. 43		22. 3. 46 34. 3. 54 46. 21. 55 59. 1. 17 72. 5. 9			
14 15 16	Antares.	36. 26. 8 50. 18. 46 64. 37. 22	38, 8, 43 52, 4, 45	39. 51. 44 53. 51. 7	41. 35. 10 55. 37. 53		
20 21 22 23 24 25 26	The Sun.	38. 45. 39 52. 27. 29 65. 52. 53 78. 58. 38 91. 43. 32 104. 8. 15 116. 14. 30	54. 9. 9 67. 32. 12 80. 35. 23 93. 17. 42 105. 39. 59	55. 50. 32 69. 11. 12 82. 11. 48 94. 51. 33 107. 11. 26	43. 55. 19 57. 31. 38 70. 49. 54 83. 47. 53 96. 25. 6 108. 42. 37 120. 42. 26		
24 25 26	a Arietis.	33. 39. 36 46. 58. 47 60. 2. 32	35. 20. 20 48. 37. 36	37. 0. 49 50. 16. 11	ALLEN OF THE		
26 27 28 29	Aldeba- ran.		30. 3. 5 42. 24. 42 54. 44. 11 66. 57. 19	31. 35. 29 43. 57. 25 56. 16. 10 68. 28. 26	45. 30. 4		

24] FEBRUARY 1768.

Configurations of the SATELLITES of JUPITER
at 11 o' th' Clock at Night.

Ш	the second of th	0 14 1 - 1 = 18
1	4	3. 2.0
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	2.	O -3.f
29	3.2	0 3 4.7/
1		AND DESCRIPTION OF THE PARTY OF

		MARCH	1768. [25]
Days o	Days o	Sundays, Holidays, &c.	Phases of the Moon.
of the	of the eek.	Salgari in Escari	D. H. / Full Moon — 3. 2. 18 Last Quarter — 11. 6. 15
1 2 3	Tu. W. Th.	David. Chad.	New Moon—18. 3. 51 First Quarter — 24. 19. 54
-4	F. Sa.	Prs. of Hesse born.	Other Phenomena. D. I. (\xi Si'oh 27'.
6 7 8	Su. M. Tu.	3d Sunday in Lent. Perpetua.	(πΩ 15h 31'. 9. (σ III, 20h 58'. 10. (α III, 0h 49'.
9	W. Th.	151 6	(0 Ophiuchi 23h 25'.
11 12 13	F. Sa. Su.	Gregory M. 4th Sunday in Lent, Mid-	13. (& 14h 10'. diff. Lat.
	M. Tu.	[lent Sunday.	19. ⊙ enters Y at 13h 40'. (11 ★ 19h 5'. 21. ♀ Stationary.
16 17 18	W. Th. F.	Edw. K. of West, Sax.	22. (n Pleiadum oh 44'. 23. (3 post ζ δ 20h 28'. 24. (ε II 22h 38'.
19	Sa. Su.	Prs. Louifa-Ann born, 5th Sunday in Lent.	25. (\$ II 14h 31'. 28. (\$ 1 Im. at 4h 56'\frac{1}{2}. Em. at 5h 12'. diff.
21 22 23	M. Tu. W.	Benedict.	Lat. 14'\frac{1}{2}.) \pi \Omega 21h 26'.
24 25	Th. F.	[Cam.T.ends. Annun. of the V. Mary,	#1 #5 to 14
26 27 28	Sa. Su. M.	Oxford Term ends. 6th Sunday in Lent, Palm- [Sunday.	
29 30	Tu. W.		
31	Th.		

24] FEBRUARY 1768.

Configurations of the SATELLITES of JUPITER at 11 o' th' Clock at Night.

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25 3. 2 1.0	
26	4.4
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29	17/10

		MARCH	1768. [25]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H. / Full Moon — 3. 2. 18
3 4	Tu. W. Th. F. Sa.	David. Chad. Prs. of Hesse born.	Laft Quarter—11, 6, 15 New Moon—18, 3, 51 First Quarter—24, 19, 54 Other Phenomena, D,
7 8 9	Su. M. Tu. W. Th.	3d Sunday in Lent. Perpetua.	1, Q ξ Ω ′0 ^h 27′. Q π Ω 15 ^h 31′. 9. Q σ M 20 ^h 58′. 10. Q α M 0 ^h 49′. Q θ Ophiuchi 23 ^h 25′. 12. Q δ χ diff. Lat. 13′.
12 13 14	F. Sa. Su. M. Tu.	Gregory M. 4th Sunday in Lent, Mid- [lent Sunday.	(A I 3h 38/. 13. (8 14h 10'. diff. Lat.
16 17 18 19	W. Th. F. Sa.	Edw. K. of West. Sax. Prs. Louisa-Ann born, 5th Sunday in Lent.	21.
21 22 23 24	M. Tu. W. Th. F.	Benedict. [Cam.T.ends. Annun. of the V. Mary,	Em, at 5 ^h 12'. diff. Lat. 14'½. DπΩ 21 ^h 26'.
27 28	Sa. Su. M. Tu. W.	Oxford Term ends. 6th Sunday in Lent, Palm- [Sunday.) 12
31	Th.		

[26]		MAI	RCH	1768.	778	
Days of the Month.	Days of the Week.	Sun's Longitude.	Sun's Right Afc. in Time.	Sun's Declin. South.	Equat. of Time Add.	Diff.
1 2 3 4 5	Tu. W. Th. F. Sa.	11. 12. 30. 4 11. 13. 30. 5	22. 51. 45 22. 55. 29 22. 59. 12 23. 2. 55 23. 6. 37	7. 15. 35 6. 52. 42 6. 29. 41 6. 6. 35 5. 43. 24	12,20, 5 12, 7, 2 11,53, 4	12, 8 13, 3 13, 8 14, 3
6 7 8 9	Su. M. Tu. W. Th.	11. 16. 29. 54 11. 17. 29. 46 11. 18. 29. 37 11. 19. 29. 27 11. 20. 29. 14	23. 14. 0 23. 17. 41 23. 21. 22	5. 20. 8 4. 56. 48 4. 33. 24 4. 9. 58 3. 46. 26	11. 9, 4 10.54, 0 10.38, 3	14, 7 15, 0 15, 4 15, 7 16, 1
11 12 13 14 15	F. Sa. Su. M. Tu.	11. 21. 29. 0 11. 22. 28. 45 11. 23. 28. 27 11. 24. 28. 9 11. 25 27. 49	23. 32. 22 23. 36. 2 23. 39. 42	3. 22. 53 2. 59. 17 2. 35. 39 2. 12. 0 1. 48. 19	9.49, 2 9.32, 3 9.15, 2	16, 4 16, 6 16, 9 17, 1 17, 4
17 18 19	W. Th. F. Sa.	11. 26. 27. 26 11. 27. 27. 1 11. 28. 26. 35 11. 29. 26. 6	23. 50. 39 23. 54. 16 23. 57. 56	1. 0.55 0.37.12 0.13.30 NORTH.	8.22, 5 8. 4, 6 7.46, 4	17, 7 17, 9 18, 2 18, 2
21 22 23 24 25	M. Tu. W. Th. F.	0. 1.25. 3 0. 2.24.28 0. 3.23.51 0. 4.23.11 0. 5.22.29	o. 8. 50 o. 12. 28 o. 16. 6	0. 33. 52 0. 57. 32 1. 21. 9 1. 44. 44 2. 8. 17	6.51, 4 6.32, 9 6.14, 2	18, 5
26 27 28 29 30	Sa. Su. M. Tu. W.	o. 6. 21. 44 o. 7. 20. 57 o. 8. 20. 8 o. 9. 19. 16 o. 10. 18. 22	0. 26. 59 0. 30. 36 0. 34. 14	2. 55. 13 3. 18. 36 3. 41. 55	5.18, 1 4.59, 3 4.40, 6	18, 7 18, 8 18, 7
31	Th.	0. 11. 17. 27	0. 41. 31	4. 28. 21	4. 3. 4	

	MARCH 1768. [27]									
E Days.	meter of	emidia- meter of paffing the the Sun. Meridian. Hourly Motion of the Sun.		Logarithm of the Sun's Diftance,	Place of the Moon's Node.					
	1 11	7 11	1 11	1991	/					
7 13 19	16. 10, 5 16. 9, 0 16. 7, 4 16. 5, 7 16. 4, 1	1. 4, 8 1. 4, 6 1. 4, 4	2. 30,1 2. 29,7 2. 29,2 2. 28,7 2. 28,3	9. 996498 9. 997193 9. 997928 9. 998675 9. 999409	9. 18. 58 9. 18. 39 9. 18. 20 9. 18. 0 9. 17. 41					

Eclipses of the SATELLETES of JUPITER.

	Satellite.	II. Satellite.		III. Satellite.	
D. 1 3 5 6 8 10 12 14	14*48.24 9.17.16 3.46.7 22.15.3 16*43.58 11*12.57 5.41.55 0.10.55	D, 2 6 9 13 16 20 23 27	11* 9. 36 0. 26. 54 13*44. 19 3. 1. 51 16*19. 26 5. 37. 7 18. 54. 50 8*12. 40	B. h / // 2 9*49. 52 I 2 12*10. 3 E 9 13*49. 37 I 16 17. 49. 49 I 23 21. 50. 13 I 31 1. 50. 48 I IV. Satellite,	The second second second second second
15 17 19 21 22 24 26 28 29 31	18. 39. 55 13* 9. 1 7. 38. 0 2. 7. 7 20. 36. 6 15* 5. 13 9*34 19 4. 3. 23 22. 32. 27 17* 1. 34	30	21, 30, 31	2 11. 13. 24 d 19 5. 11. 54 d	一年 一日

12	87		MA	RCE	1 /176	8.	
1	Heli	ocen-	Heliocen-	Geocen-	Geocen-	Declina-	Paffage
D	tric	Lon-	tric Lati-	tric Lon-	tric La	tion.	over Merid.
ys.			-			200	1000
W.	5	0 1	0 /	8 0 /	0 1	0 1	P 1
	- 1	ME	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	Y. gr. 1	100 220	DE # 150	30 ^d 23 ^{hx} / ₂ .
I		2. 11		11. 23. 14	0. 26 S	3. 5 S	0.44
7		8. 46	2. 45 N 6. 5	0. 11. 49		2, 17 N 6. 38	0. 59 I. 4
19	4	19. 58	6.58	0. 15. 49	3. 7	9. 7	0.54
25	5.	18. 7	5.55	0. 15. 12	3. 23	19.9	0.31
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7		6. 34	o. 26 o. 7S	10. 7. 53		18. 1	21. 28
19	8. 2	6. 5	0.40	10. 22. 11	0, 25	14. 32	21.42
25	9.	5.35	1.13	10. 29. 23	0.43	12.23	21.48
3	MIN	1/10	MR N	MAR	1	300	
I	8.	8. 42		9. 13. 7		23. 22 8	20. 5
7		5. 17	0.45	9. 17. 23		22.58	19.58
		8. 37	0.56	9. 25. 57	0.51	21.49	19.54
25	8. 2	1. 59	Lot	10. 0. 14	0. 57	21. 4	19.50
	1	100		UPIT		hage.	1 5
7		5. 15	1. 19 N 1. 19	6, 22. 3	1. 32 N	7. 11 S 6. 58	14. 30
13		6. 10	1. 18	6. 21. 0		6.44	13. 42
19	6. 1	6. 37	1. 18	6. 20. 22	1.34	6. 29	13. 17
25	0. 1	7. 4	1. 18	6, 19, 40	-	6. 14	12.53
	100	1	and the second	ATU	A Charles	A STATE OF THE PARTY OF THE PAR	6d 17h.
I		2. 57	0. 48 S	2. 26. 51	0.505	22. 36 N 22. 37	6.53
7		3. 24	0.46	2. 27. 2		22.38	6. 10
19	3.	3. 38	0.46	2. 27. 15	0.47	22.40	5.49
251	3.	3. 511	0.45	2. 27. 33	0.45	22. 41	5. 29

	1001	RCHAI		[29]
Days of Week Days of Monti	gitude	Moon's Lon- gitude at Midnight.	titude	Latitude
the	s 9 1 11	s =0 1/11	0 11 11	0 1 11-
1 Tu. 2 W. 3 Th. 4 F. 5 Sa.	5. 0. 22. 37 5. 12. 26. 55 5. 24. 26. 6	4. 24. 17. 55 5. 6. 25. 33 5. 18. 27. 6 6. 0. 24. 4 6. 12. 17. 42	3. 16. 34 4. 11. 9 4. 34. 43	2.50.32 S 3.40. 9 4.19.24 4.46.55 5. 1.45
6 Su. 7 M. 8 Tu. 9 W. 10 Th.	7. 0. 5.37	7. 17. 57. 56 8. 0. 0. 55	4. 59. 30 4. 41. 52 4. 11. 26	5. 3.33 4.52.15 4.28.10 3.51.59 3. 4.39
11 F. 12 Sa. 13 Su. 14 M. 15 Tu.	9. 1. 7.38 9.14.10.18 9.27.39.37	8. 24. 45. 11 9. 7. 35. 49 9. 20. 51. 25 10. 4. 35. 4 10. 18. 48. 5	1. 35. 52 0. 27. 49 S 0. 43. 59 N	2. 7.34 1. 2.32 S 0. 7.50 N 1.20. 3 2.29.48
16 W. 17 Th. 18 F. 19 Sa. 20 Su.	11. 10. 57. 52 11. 26. 8. 43 C. 11. 27. 17	11. 3. 28. 46 11. 18. 31. 38 0. 3. 47. 44 0. 19. 5. 51 1. 4. 14. 20	3. 58. 9 4. 38. 42 4. 59. 26	3.31.48 4.20.41 4.51.40 5. 1.52 4.50.50
21 M. 22 Tu. 23 W. 24 Th. 25 F.	1. 11. 41. 53 1. 26. 19. 9 2. 10. 29. 15 2. 24. 11. 28 3. 7. 27. 25	2. 3. 27. 43 2. 17. 23. 46 3. 0. 52. 31	3. 58. 44 3. 6. 2 2. 3. 56	4.20,10 3.33.47 2.35.52 1.30.51 0.22.57 N
26 Sa. 27 Su. 28 M. 29 Tu. 30 W.	3. 20. 20. 15 4. 2. 54. 23 4. 15. 13. 43 4. 27. 22. 15 5. 9. 23. 23	4. 9. 5. 35 4. 21. 19. 2 5. 3. 23. 34 5. 15. 21. 59	1. 16. 39 2. 17. 19 3. 10. 54 3. 55. 4	0.44.16 S 1.47.49 2.45. 9 3.34.12 4.13.13
31 Th.	5. 21. 19. 48	5. 27. 16. 52	4. 28. 32	4.40.54

[30]			MA	RCF	1 176	8.	
Days of the Month.	Days of the Week.	D's Age.	b's País- age over Merid.	Afcen, at	Afc. at	p's De- clination at Noon.	clination
1 2 3 4 5	Tu. W. Th. F. Sa.	14 15 16 17 18	10. 47 11. 29 12 10 12. 50 13. 31	139. 53 151. 18 162. 17 173. 5 183. 52	156. 49	3. 11 N 1. 59 S	10. 45 N 5. 45 0. 36 N 4. 31 S 9. 29
6 7 8 9	Su. M. Tu. W. Th.	19 20 21 22 23	14. 14 14. 58 15. 44 16. 34 17. 27	194. 51 206. 10 218. 0 230. 28 243. 33	200. 27 212. I 224. 9 236. 56 250. 19	16. 11 19. 54 22. 50	14. 5 18. 8 21. 29 23. 57 25. 21
11 12 13 14 15	F. Sa. Su. M. Tu.	24 25 26 27 28	18. 20 19. 15 20. 10 21. 4 21. 58	257. 12 271. 14 285. 26 299. 35 313. 32	264, 111 278, 20 292, 32 306, 35 320, 26	25. 4	25. 29 24. 18 21. 43 17. 51 12. 50
16 17 18 19 20	W. Th. F. Sa.	29 30 1 2	23.44 0 0.38	327. 18 340. 56 354. 37 8. 33 22. 53	334- 7 347- 45 1. 32 15. 40 30. 15	3. 47 S 2. 43 N	6, 57 0, 33 S 5, 58 N 12, 8 17, 30
21 22 23 24 25	M. Tu. W. Th. F.	4 5 6 7 8	3. 31 4. 32	37· 44 52· 59 68· 23 83· 34 98· 10	60. 4 76. 2 90. 5	19. 46 123. 13 125. 7 125. 24 124. 13	21, 41 24, 22 25, 27 24, 59 23, 7
26 27 28 29 30	Sa. Su. M. Tu. W.	9 10 11 12 13	8. 8 8. 53 9. 36	111. 58 124. 53 137. 0 148. 28 159. 30	131.	2 21. 46 2 18. 18 8 14. 6 1 9. 25 4 4. 26 N	20. 8 16. 16 11. 48 6. 57 1. 53 N
31	Th.	14	10.57	170, 16	175.3	0. 40 S	3. 13 S

1			ARC		The second second	[31]
Days of t Month	Days of t Week.	D at Noon.	night.	Dat Noon.) at Midnight.	Proport, Lo- gar, at Midn, Proport, Lo- gar, at Noon,
the th.	f the	1 11	111	1 11	1 11	Lo.
1 2 3 4 5	Tu. W. Th. F. Sa.	15. 1 14. 55 14. 51 14. 47 14. 45	14. 58 14. 53 14. 49 14. 46 14. 45	55. 7 54. 45 54. 28 54. 16 54. 8	54. 56 54. 36 54. 22 54. 12 54. 7	5140 5154 5169 5180 5191 5200 5207 5213 5218 5219
6 7 8 9 10	Su. M. Tu. W. Th.	14. 45 14. 46 14. 50 14. 55 15. 3	14. 45 14. 48 14. 52 .14. 59 15. 9	54. 7 54. 12 54. 25 54. 46 55. 16	54. 9 54. 17 54. 34 55. 0 55. 35	\$219 5217 5213 5206 5195 5183 5167 5149 5128 5103
11 12 13 14 15	F, Sa. Su. M. Tu.	15. 15 15. 28 15. 42 15. 58 16. 13	15. 21' 15. 35 15. 50 16. 6 16. 21	55. 56 56. 44 37. 38 58. 36 59. 32	56. 19 57. 10 58. 7 59. 5 59. 59	5076 5046 5014 4981 4946 4910 4874 4838 4895 4772
16 17 18 19 20	W. Th. F. Sa. Su.	16. 27 16. 38 16. 44 16. 44 16. 40	16. 33 16. 41 16. 45 16. 43 16. 36	60. 23 61. 1 61. 23 61. 26 61. 10	60. 44 61. 15 61. 27 61. 20 62. 55	4743 4718 4698 4682 4672 4668 4669 4676 4687 4705
21 22 23 24 25	M. Tu. W. Th. F.	16, 31 16, 18 16, 4 15, 50 15, 35	16. 25 16. 12 15. 57 15. 42 15. 29	60. 37 59. 51 58. 59 58. 5 57. 43	60. 15 59. 26 58. 32 57. 39 56. 49	4727 4782 4812 4845 4878 4912 4945 4977 5008
28	Su. M. Tu.	15. 23 15. 12 15. 2 14. 55 14. 50	15. 17 15. 7 14. 59 14. 52 14. 48	56. 26 55. 46 55. 12 54. 46 54. 26	54. 58	5037 5064 5089 5112 5133 5152 5167 5182 5194 5203
31	Th,	14. 46	14.45	54.13	1 54. 9	5211 5217

3	[32] MARCH 1768.							
	ittances of D's Center from Stars, and from @ eath of her.							
Days.	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.			
	196.12	0 1 11	0 1 11	0 / //	0 / //			
2 3 4	Spica ng	62, 22, 28 50, 11, 50 38, 9, 47 26, 15, 33	60. 50. 42 48. 41. 7 36. 40. 4 24. 46. 53	59. 19. 4 47. 10. 32 35. 10. 28 23. 18. 23				
567	Antares.	59. 57. 15 48. 7. 38 36. 18. 44	58. 28. 25 46. 39. 2 34. 50. 2	56. 59. 37 45. 10. 27 33. 21. 19	55. 30. 52 43. 41. 51			
8 9	z Aquilæ.	80. 38. 41 70. 14. 2	79. 20 30 68. 56. 13	78. 2. 22 67. 38. 31	76. 44. 11 65. 20. 56			
10	B Capri- comi.	55. 15. 16 42. 55. 33	53. 43. 40	52. 11. 49	50. 39. 45			
9 10 11 12 13 14 15 20 21 22 23 24 25 26 27 28	Aldebaran. Pollux. Regulus.	115, 26, 42 104, 21, 15 93, 0, 59 81, 21, 19 69, 18, 13 56, 48, 43 43, 51, 53 41, 9, 3 26, 48, 13 53, 31, 16 39, 32, 45 26, 9, 43 62, 25, 44 49, 9, 35 36, 17, 10 23, 46, 26 11, 42, 49	91. 34. 40 79. 52. 18 67. 46. 1 55. 13. 6 42. 12. 55 39. 19. 15 25. 4. 38 51. 44. 45 37. 50. 14 60. 44. 52 47. 31. 48 34. 42. 8		64. 40. 21 52. 0. 35 38. 53. 54 35. 41. 11 21. 41. 37 48. 13. 9 34. 26. 55 57. 24. 18			
28 29 30 31	Spica IIV	65. 20. 20 53. 12. 2 41. 12. 45 29. 20. 26	51. 41. 41 39. 43. 23	62. 17. 19 50. 11. 28 38. 14. 6 26. 23. 20	48. 41. 22 36. 44. 56			

	M A-I	RCH.	1768.	f 33 1
Distances	of D's Cente	r from Stars	, and from @	east of her.
A TO HER G	Thom see -	100	No. of Contract of	4 SNITH IN
Stars	12 Hours,	15 Hours.	18 Hours.	21 Hours.
Stars Names.	L-MORIA)	anuori g	- BOOK -	100
	0 1 11	0 1 11	0 1 11	Tonick
I	56. 16. 8	54- 44- 52		
2 Spica m			41. 9.32	
10 TO 17		30. 42. 25	29. 13. 19	27. 44. 22
4 04 31	20, 21, 51	6000 6	60.00	61, 26, 8
Barton Marie Con		64. 24. 6		49. 36. 14
5 Antares.			39. 16. 2	
7	30. 23. 42	C. The Care	AST THE RES	. blAntanes
7 37.17	1 85. 51. 17		83. 15. 1	81. 56. 51
8 & Aquilæ		74. 7.58	72.49.56	71. 31. 57
19 00 00	65. 3.29		4.31.00	STONE OF
9 & Capri-		59.48.50	58. 17. 51	56. 46. 40
10 Corni.	49. 7. 25		46. 2. 3	
8	120, 55, 18		118, 11, 15	116. 49. 2
9 .0 -001			107. 8. 50	
The Sun.	87. 13. 49	85. 46. 13	95. 52. 42 84. 18. 16	82, 49, 58
12	75. 22. 56	73. 52. 22	72. 21. 23	70. 50. 0
13	63. 6.53	61. 32. 59	59. 58. 39	58. 23. 54
14	50, 23, 41			45. 30. 28
19 Aldeba-	48. 32. 27			
20 ran	33. 53. 1		30. 18. 50	28.33. 0
21	20. 2.28		CD C II	
21 22 Pollux.	46, 28, 4		57. 5. 44 42. 59. 23	55. 18. 17
23	32. 46. 0			27. 47. 45
24	55- 44- 36	-	-	
	42. 40. 35		39. 28. 12	37. 52. 31
25 Regulus,	29.59. 4	28. 25. 22	26.52. 2	25. 19. 4
2.7	17.40. 2			13. 11.
28	59. 14. 57		56. 13. 12	
29 Spica MX	47. 11. 25	45.41.35		
335 04 36	35. 15. 52		32. 17. 57 20. 30. 37	30. 49. 9
Panent.	1000	10000	20. 21. 21	19. 21.47
			E	

[34]	Charles and the same	RCH		-
Diffances of	D's Center	from Stars, a	and from o	west of her.
Stars	Noon.	3 Hours.	6 Hours.	9 Hours
Names.	0 / 11		0 / 1/	9 11 11 -
Pollux.	29. 31. 55		32. 31. 4	
3	53. 24. 27	42.58.52	44. 28. 25	45-57-55
3	16: 25. 25	17. 54. 38		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1
5 Rogulus.	28. 14. 31 40. 3. 12	29, 43, 10	M. C.	44. 28. 33
6 Cognisus	51.50.25	53, 18. 47		
7	63. 3745	65. 6. 17	66. 34. 51	68. 3. 29
8	21. 29. 50	22. 59.11		25.55.32
9	33. 22. 17	34. 52. 10	36. 22. 15	37. 52. 32
Spica W	45. 27. 13	46, 58, 51	60. 55. 52	62. 30. 24
12 15 17	70. 28. 11	72. 4.49		
13	83. 32. 29			
A3	37. 48. 49		41. 9. 8	42.49.59
14 Antares.	51. 20. 56	53. 4.28	54. 48. 27	56.32.53
16	79. 50. 42	67. 8. 58	08, 50, 32	70. 44. 32
16 3Capricorni		27. 5. 20	28. 55. 7	30, 45, 21
21	40.30. 3		43. 54. 38	
22 -00 10	54. 0. 43		57. 19. 48	
23	67. 7. 32	68. 44. 4	70. 20: 13	71.55.57
24 The Sun.	79. 48.40	81. 22. 1	82. 54. 59	84. 27. 34
25	92- 4.55	193. 35. 17	95. 5. 19	96. 35. 0
27	115. 33. 2		118, 24. 1	119. 49. 8
25	31. 31. 33		34- 39- 37	36, 13, 34
26 Aldeba-	44. I. 56	45. 35. 13	47. 8. 20	48. 41. 18
27 ran.	56. 23. 24	57. 55. 16	59. 26. 57	60. 58. 28
28	68. 33. 37	0		
28 Pollux.	26. 42. 12	28. 10. 54	29. 39. 42	
30 Follux.	38. 33. 30		41. 31. 21	43. 0. 13
	13. 29. 31		16. 23. 27	17.50.51
30 Regulus.	25. 10. 37	26. 38. 49	28. 7. 2	29. 35. 17
	1			
			-	

	MARCH 1768, [35]							
	Diftances	of D's Cente	r from Stars	, and from G	well of her.			
Days.	Stars Names,	12 Hours.	15 Hours.	48 Hours.	21 Hours			
12	3 11	0 1-11	0 1 11	0 1 11	0 1 11			
1 2	Pollux.	35- 30. 27 47- 27- 21	37. 0. 11 48. 56. 44	38. 29. 53 50. 26. 2	39. 59. 35			
3 4 5 6 5	Regulus.	22. 19. 57 34. 9. 2 45. 56. 57 57. 43. 57 69. 32. 9	23, 48, 33 35, 37, 37 47, 25, 20 59, 12, 22	37. 6. 10				
7 7 8 9 10 11	Spica ng	15. 38. 44 27. 24. 34 39. 23. 1 51. 35. 18 64. 5. 15	17. 6. 9 28. 53. 41 49. 53. 43 53. 7. 59 65. 40. 27	30. 23. 1 42. 24. 39 54. 40. 58 67. 16. 0	20. 1. 42 31. 52. 33 43. 55. 49 56. 14. 14 68. 51. 55			
13 14 15	Antares.	76. 57. 5 44. 31. 17 58. 17. 46 72. 32. 57	78. 35. 18 46. 13. 0 60. 3. 7 74. 21. 47	80, 13, 56 47, 55, 12 61, 48, 55 76, 11, 2	81. 52. 59 49. 37. 50 63. 35. 9 78. 0. 40			
	SCapricorni.	32. 36. 1	0	1-1-11	11			
21 22 23 24 25 26	The Sun.	60. 37. 19 73. 31. 17 85. 59. 46 98. 4. 20	62. 15. 28 75. 6. 13 87. 31. 36 99. 33. 21	50. 40. 4 63. 53. 14 76. 40. 46 89. 3. 5 101. 2. 3 112, 41. 2	65. 30. 35 78. 14. 55 90. 34-11			
25 26 27	Aldeba- ran.	37· 47· 27 50. 14. 5 62. 29. 49	35, 21, 15 51, 46, 41 64, 1, 0		42, 28, 30 54, 51, 21 67, 2, 54			
-Q	Pollux.	32. 37. 30 44. 29. 3	34. 6. 29 45. 57. 51	47. 26. 37	37- 4-30 48.55.20			
30 31	Regulus.	19. 18. 29 31. 3. 34		22. I4. 20 34. 0. 13	23. 42. 26 35. 28. 32			
	160 14 1	1-1-11	1		1			

[36] MAR	O H 71768.
	TELLITES OF JUPITER
on ignitations of the SA	ock in the Evening.
H. O. H. Clo	ck in the Brening.
TI WEST - DONNE CHANGE	0 1. 2 463
2 3 % or	·1 ① 2.4. Three back 4
3 10 2034	0
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5 4. 1.	
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THE PERSON NAMED IN COLUMN	0 3
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13 / a de la G artir de 20	2, ① 3 .1 4
PARTIES OF THE REAL PROPERTY AND ADDRESS OF THE PARTIES OF THE PAR	0 .1 .4
15	0 162 3
16	O 263
171 212 171 2131	O 1.
181 -185 18 181	-2-1 ① 4-
19 1 0 40	0 *
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31 2.	3. ① r.
1	

	APRIL 1768. [37]
Days of the Week. F. Sa. 3 Su. 4 M. 5 Tu. 6 W. 7 Th. 8 F. 9 Sa. 10 Su. 11 M. 12 Tu. 13 Tu. 13 Tu. 14 Th.	Phases of the Moon. Sundays, Holidays, &c. D. H. ' Full Moon — 1, 19, 56 Last Quarter — 9, 20, 7 New Moon — 16, 12, 20 First Quarter — 23, 9, 5 Easter Day, Rd. B. Easter Tuesday. Other Phenomena. D. 1. Q A m diff. Lat. 39'. 6. Q c m dist. Lat. 11'. Q o m 3" 18'. 7. Q b Ophiuchi 6b o'. 8. Q A T 10b 46'. 12. Q m 16h 31'. 14. Q Stationary. 18. Q n Pleiadum 1ch 50'. 19. O enters & at 2h 33'. 19. O enters & at 2h 33'. 20. Q 3 post & 8 5 11'. 21. Q e H 6h 32'.
15 F. 16 Sa. 17 Su. 18 M. 19 Tu. 20 W.	(of II 21h 58'.) 24 (ξ Ω 12h 35'.) (o St 17h 41'.) 25 (π Ω 3h 38'.) From Eaft. in 15 days, 29 & 1 cm diff. Lat, 26'. Alphege. 1 ret. h η II diff. Lat, 16'. Eafter Term begins.
21 Th. 22 F. 23 Sa. 24 Su. 25 M. 26 Tu. 27 W. 28 Th. 29 F. 30 Sa.	St. George. 3d Sunday after Eafter. St. Mark. From Eaft. in [3 weeks, 2 ret.

[38]		APR	IL	1768.		
Days of the Month.	Days of the Week.	Sun's Longitude.	in Time.	Sun's Declin. North.	of Time Add.	Diff.
1 2 3 4 5	F. Sa. Su. M. Tu.	0. 12. 16. 29 0. 13. 15. 27 0. 14. 14. 25 0. 15. 13. 20 0. 16. 12. 14	0. 45. 9 0. 48. 47 0. 52. 25 0. 56. 3 0. 59. 42	4. 51. 26 5. 14. 26 5. 37. 20 6. 0. 9 6. 22. 52	3.25, 6 3. 8, 3 2.50, 2	18,4 18,3 18,1 17,9
6 7 8 9 10	W. Th. F. Sa. Su.	0. 17. 11. 6 0. 18. 9. 56 0. 19. 8. 45 0. 20. 7. 32 0. 21. 6. 17	1. 3. 21 1. 7. 0 1. 10. 39 1. 14. 19 1. 17. 59	7. 30. 20	I.57, 3 I.40, 1 I.23, 2	17,6 17,4 17,2 16,9 16,6
11 12 13 14	M. Tu. W. Th,	0. 22. 5: 1 0. 23. 3. 42 0. 24. 2. 23 0. 25. 1. 1	1. 25. 19 1. 29. 0 1. 32. 41	9. 20. 14 9. 41. 47	0.34, 4 0.18, 7 0. 3, 4 Sub.	16,0 15,7 15,3
16 17 18 19	Sa. Sa. M. Tu. W.	0. 25, 59, 38 0. 26, 58, 14 0. 27, 56, 47 0. 28, 55, 18 0. 29, 53, 47 1. 0. 52, 14	1, 40, 5 1, 43, 48 1, 47, 30 1, 51, 13	10. 3. 10 10. 24. 23 10. 45. 26 11. 6. 19 11. 27. 0	0.26, 1 0.40, 3 0.54, 1 1, 7, 5	14,6 14,2 13,8 13,4 12,9
21 22 23 24 25	Th. F. Sa. Su. M.	I. 1. 50. 41 I. 2. 49. 3 I. 3. 47. 23 I. 4. 45. 42 I. 5. 43. 59	1. 58. 40 2. 2. 25 2. 6. 10 2. 9. 55	12. 7. 49 12. 27. 50 12. 47. 50 13. 7. 30 13. 26. 59	1.32, 9 1.45, 1 1.56, 8 2, 8, 1	12,2 11,7 11,3 10,8
26 27 28 29 30	Tu. W. Th. F. Sa.	1. 6. 42. 13 1. 7. 40. 25 1. 8. 38. 36 1. 9. 36. 44 1. 10. 34. 51	2. 17. 27 2. 21. 14 2. 25. 1 2. 28. 49	13. 46. 11 14. 5. 16 14. 24. 4 14. 42. 37 15. 0. 56	2.29, 2 1.39, 0 2.48, 3 2.57; 2	9,8 9,3 8,9 8,3 7,8

Annual Indian	PRIL	768. [39]					
on the Sun. I	affing the	ogarithm Place of the fine Sun's Moon's Node.					
1 16. 2,1 7 16. 0,4 13 15.58,9	1. 4,4 2.27,6 0 1. 4,5 2.27,1 0 1. 4,8 2.26,5 0 1. 5,1 2.26,1 0	9, 17, 19 9, 17, 19 9, 17, 0 9, 17, 0 9, 16, 41 9, 16, 22 9, 16, 3					
Ecliples of the SATELLITES of JUPITER.							
I. Satellite. Immerfions.	II. Satellite. Immerions.	III, Satellite.					
Days h / " 2 11*30. 44 4 5. 59-51 6 0. 28. 56 7 18. 58. 1 Emerions. 9 15*36. 34 11 10* 5. 38 13 4. 34. 44 14 23. 3. 45 16 17. 32. 47 18 12* 1. 47 20 6. 30. 51 22 0. 59. 48 23 19. 28. 49 25 13*57. 46 27 8*26. 42 29 2. 55. 34	Days h / // 3 10*48. 12 7 0. 6. 10 Emersions. 10 15*56. 15 14 0 17 18. 31. 42 21 7*49. 22 24 21. 7. 7 28 10*24. 40	Days h / // 7					

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			0.44	2, 28, 47	0. 42	22. 45	4. 25
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25	3. 5.	-11	-0-42	2. 29. 49	0,40	22. 48	3.45
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	AP	RIL 17	68.	[41]
Days of the Week. Days of the Month.	gitude at Noon.	Moon's Longitude at Midnight.	titude at Noon.	Moon's Latitude at Midn.
1 F. 2 Sa. 3 Su. 4 M. 5 Tu.	6. 3. 13. 32 6. 15. 6. 12 6. 26. 58. 59 7. 8. 53. 20 7. 20. 50. 48	6. 21. 2. 29 7. 2. 55. 49 7. 14. 51. 32	4. 59. 5 4. 55. 0 4. 38. 3	4.56.14 S 4.58.39 4.48. 7 4.24.53 3.49.48
6 W. 7 Th. 8 F. 9 Sa. 10 Su.	8. 2. 53. 40 8. 15. 4. 37 8. 27. 27. 18 9. 10. 5. 35 9. 23. 3. 42	8. 21. 14. 16 9. 3. 44. 15 9. 16. 31. 57	2. 37. 31 1. 38. 38 0. 33. 30 S	3- 3-59 2. 8.56 1. 6.41 S o. 0.39 N 1. 9.28
11 M. 12 Tu. 13 W. 14 Th. 15 F.	10. 20. 14. 16 11. 4. 30. 56 11. 19. 14. 9	10. 13. 16. 28 10. 27. 19. 8 11. 11. 49. 31 11. 26. 44. 14 0. 11. 56. 10	2. 48. 29 3. 45. 2 4. 28. 33	2.16.44 3.18. 5 4. 8.43 4.44. 0 5. 0. 5
16 Sa. 17 Su. 18 M. 19 Tu. 20 W.	0, 19, 35, 37 1, 4, 53, 51 1, 20, 1, 46 2, 4, 49, 28 2, 19, 10, 28	1. 12. 29. 46 1. 27. 28. 40 2. 12. 3. 33	4. 44. 18 4. 8. 37 3. 16. 40	4.54.54 4.28.45 3.44.21 2.46.13 1.39.26
21 Th. 22 F. 23 Sa. 24 Su. 25 M.	3. 3. 2. 6 3. 16. 24. 53 3. 29. 21. 47 4. 11. 56. 46 4. 24. 14. 36	3, 22, 56, 20 4, 5, 41, 40 4, 18, 7, 35	0. 6. 5 S 1. 14. 8 2. 16. 40	
26 Tu. 27 W. 28 Th. 29 F. 30 Sa.	5. 6. 20. 5 5. 18. 17. 20 6. 0. 10. 16 6. 12. 1. 53 6. 23. 54. 35	5. 24. 14. 10 6. 6. 6. 8 6. 17. 57. 57	4. 30. 21 4. 52. 28 5. 1. 53	4.14.49 4.43. 0 4.58.48 5. 1.42 4.51.32

[42]		20	AP	RIL	1768.		
Days of Month	Days of Week.) 's Age	D's Pass- age over Merid.	D's Right Afcen, at Noon.	p'sRight Afc. at Midn.	p's De- clinat, at Noon.	D's De- clin, at Midn.
the	the	Ĭ	h /	0 1	0 1	10	1 5
1 2 3 4 5	F. Sa. Su. M. Tu.	15 16 17 18 19	13. 3	181. 2 191. 57 203. 12 214. 56 227. 13	186. 27 197. 31 209. 0 221. 0 233. 35	14. 59	8, 16 S 12, 50 17, 1 20, 32 23, 12
6 7 8 9	W. Th. F. Sa. Su.	20 21 22 23 24	16, 21 17, 15 18, 9	240. 6 253. 28 267. 11 281. 2 294. 48	246, 44 260, 18 274, 6 287, 57 301, 36	25. T4 25. 5 23. 39	24. 51 25. 19 24. 32 22. 26 19. 6
11 12 13 14 15	W.	25 26 27 28 29	20. 44 21. 35 22. 28	308, 22 321, 44 335, 1 348, 21 2, 0	328, 23 341, 40 355, 7	17. 6 12. 6 6. 22 0. 9 S 6. 14 N	14. 40 9. 19 3. 18 S 3. 3 N 9. 19
16 17 18 19 20	Sa. Su. M. Tu. W.	2 3 4 5	0. 21 1. 21 2. 22	16. 9 30. 57 46. 23 62. 13 78. 1	38. 36 54. 16	12. 18 17. 38 21. 46 24. 21 25. 15	15. 5 19. 52 23. 16 25. 1 25. 4
21 22 23 24 25	Th. F. Sa. Sa. M.	10	5, 20 6, 11 6, 58	93. 20 107. 48 121. 16 133. 45 145. 29	114. 39	24. 30 22. 22 719. 6 215. 2 710. 27	23. 35 20, 51 17. 9 12. 48 8. 1
25 27 28 29 30	W. Th. F.	1 1 1 1	9. 3 9. 44 10. 25	156. 38 167. 28 178. 13 189. 5 200. 14	172. 50 183. 3 194. 3	7 4 32 S	
-	11	1	1		1		11

-	-	Λ:	DDI	Is and	60		
1	. 5 2 .	A	STATE OF THE PARTY NAMED IN	STATE OF THE OWNER, NAME AND ADDRESS OF THE OWNER, NAME AND AD	68.	100 100 10	431
Da	Da	Semidi.	Semidr, D			F 3	10 m
Days Mor	W'S	Noon.	night.	Noon	Midnight.	por	appor
of	s of I	770	The state of the s	THE SALL	and the same	S.C.	经
the	he	1 11	1,111	1111	1 11	Lo-	10
	F.	14.44	14. 44	54. 6	54. 4	5221	5224
Marine Co.	Sa. Su.	14. 44	14.44	54. 3		5225	5223
	M.	14-44	14. 45	54. 6		5221	
	Tu.	14. 47	14. 49	54. 15	54. 38	5190	
1 43.50	CALA	24.0	14.33	27172	34.34	1	2 1 1
5.0	W.	14.56	15. 0	54.50		5162	5145
	Th. F.	15. 4	15. 9	55, 18	55. 34	5125	5104
	Sa.	15. 14	15. 19	55.53	56. 59	5025	1005
TO	Su.	15. 39	15.46	57. 25	57.51	4952	4930
W 10	799	Selection of			The state of the s	100000	
	M.	15.53	16. 0	58, 18	58. 45		
100000	Tu. W.	16. 8	16. 15	59. 12	59. 39	4830	4797
13	Th.	16. 22	16. 28 16. 38	60. 4	60. 27	4766	4/39
15	F.	16. 42	16.44	61.17	611. 25	4679	4670
100		-	-				MACHINE !
200	Sa.	16. 45	16.45	61. 28	61.27	4566	
17	Su. M.	16. 43	16. 40	60.54	61. 9	4675	
19	Tu.	16. 24	16. 30	60. 12	59. 47	4757	4729
20	W.	16. 10	16. 2	59. 19	58.51	4821	4855
-	7	-	1		100		-
21	Th. F.	15. 54	15.46	58. 22	57.53	4891	4927
22	Sa.	15.39	15. 31	57: 25	56. 58		4997
24	Su.	15.12	15. 6	55. 46	55. 26		5115
25	M.	15. 2	14. 58	55: 9	54.54		5157
26	Tu.	14 14	7.0	54.40	64 70	CERT	CT 90
27	w.	14. 54	14. 51	54.40	54. 39		5189
28	Th.	14. 46	14. 45	54. 10	54. 8		5218
29	F.	14. 44	14. 45	54. 6	54- 7	5221	5220
30	Sa.	14. 45	14.46	54. 9	54. 12	5217	5212
1	(F.)			100	4000	1	
1	and the second	-			-		-

42 APRIL 1768.								
Days of the Month.	Days of the Week.) 's Age.	p'sPafs- age over Merid.	D's Right Afcen, at Noon.	Afc. at clin	loon. Mic		
1 2 3 4 5	F. Sa. Su. M. Tu.	15 16 17 18	11. 38 12. 20 13. 3 13. 49 14. 38	181. 2 191. 57 203. 12 214. 56 227. 13	186. 27 5. 197. 31 10. 209. 0 14. 221. 0 18. 233. 35 21.	33 12. 59 17. 53 20.	32	
6 7 8 9 10	W. Th. F. Sa. Su.	20 21 22 23 24	15. 28 16. 21 17. 15 18. 9	240. 6 253. 28 267. 11 281. 2 294. 48	246, 44 24, 260, 18 25, 274, 6 25, 287, 57, 23, 301, 36, 20,	14 25. 5 24. 39 22.	19 32 26	
12 13	M. Tu. W. Th. F.	25 26 27 28 29	20. 44 21. 35 22. 28	308. 22 321. 44 335. 1 348. 21 2. 0	315. 5 17. 328. 23 12. 341. 40 6. 355. 7 0. 9. 0 6.	6 9. 3. 9 S 3.		
16 17 18 19 20		1 2 3 4 5	0, 21 1, 21 2, 22	16. 9 30. 57 46. 23 62. 13 78. 1	23. 28 12. 38. 36 17. 54. 16 21. 70. 9 24. 85. 46 25.	38 19. 46 23. 21 25.	16	
21 22 23 24 25		6	5, 20 6, 11 6, 58	93. 20 107. 48 121. 16 133. 45 145. 29	100. 41 24. 114. 39 22. 127. 37 19. 139. 42 15. 151. 710.	22 20. 6 17. 2 12.	51 9 48	
25 27 28 29 30	W. Th. F.	12	9. 3 9. 44 10. 25	156. 38 167. 28 178. 13 189. 5 200. 14	172. 50 0. 183. 37 4. 194. 37 9.		25	
		L				1 1		

	A P R I L 1768. [43]									
HALL I	Semida.	Semidr. D		ALCOHOLD .	J. Pu	19 P				
Week Days of t Month	n at Noon.	at Mid- night.	Dat	D at Midnight.	50.00	roport.				
the	1 11	1711	1 11	1 11	Lo-	Lo-				
1 F. 2 Sa. 3 Su. 4 M. 5 Tu.	14. 44 14. 44 14. 44 14. 47 14. 51	14. 44 14. 45 14. 49 14. 53	54. 6 54. 3 54. 6 54. 15 54. 29	54- 4	5221 5225 5221 5209 5190	5223 5216 5201				
6 W. 7 Th. 8 F. 9 Sa. 10 Su.	14. 56 15. 4 15. 14 15. 25 15. 39	15. 0 15. 9 15. 19 15. 32 15. 46	54. 50 55. 18 55. 53 56. 36 57. 25	55. 34 55. 34 56. 13 56. 59 57. 51	5125	5054 4995				
11 M. 12 Tu. 13 W. 14 Th. 15 F.	15. 53 16. 8 16. 22 16. 34 16. 42	16. 0 16. 15 16. 28 16. 38 16. 44	58, 18 59, 12 60, 4 60, 47 61, 17	58. 45 59. 39 60, 27 61. 4 61. 25	4896 4830 4766 4715 4679	4797 4739 4694				
16 Sa, 17 Su. 18 M. 19 Tu. 20 W.	16, 45 16, 43 16, 36 16, 24 16, 10	16. 45 16. 40 16. 30 16. 17 16. 2	61. 28 61. 21 60. 54 60. 12 59. 19	61. 27 61. 9 60. 35 59. 47 58. 51	4675 4797 4757	4668 4688 4729 4787 4855				
21 Th. 22 F. 23 Sa. 24 Su. 25 M.	15. 54 15. 39 15. 24 15. 12 15. 2	15. 46 15. 31 15. 18 15. 6 14. 58	58. 22 57. 25 56. 32 55. 46 55. 9	57. 53 56. 58 56. 8 55. 26 54. 54	4952 5029 5089	4927 4997 5060- 5115 5157				
26 Tu. 27 W. 28 Th. 29 F. 30 Sa.	14. 54 14. 49 14. 46 14. 44 14. 45	14. 51 14. 47 14. 45 14. 45 14. 46	54. 40 54. 21 54. 10 54. 6 54. 9	54- 39 54- 15 54- 8 54- 7 54- 12	5201 5215 5221	5189 5209 5218 5220 5212				
			121.0	1000	JE 1	1				

[42]	42] APRIL 1768.								
Days of the Month.	Days of the Week.	D's Age.	D's Pafs- age over Merid.	D's Right Afcen. at Noon.	D'sRight Afc. at Midn.	p's De- clinat, at Noon.	D's De- clin, at Midn.		
1 2 3	F. Sa. Su.	15	11. 38 12. 20 13. 3	181, 2 191, 57 203, 12	186. 27	5. 43 S	8. 10 S 12. 50 17. 1		
6	M. Tu. W.	19	13, 49 14, 38	214. 56 227. 13 240. 6	221. 0 233. 35	18. 53 21. 59 24. 10	20. 32 23. 12 24. 51		
	Th. F. Sa. Su.	21 22 23 24	17. 15	253. 28 267. 11 281. 2 294. 48	260, 18 274, 6 287, 57 301, 36	25. 5	25. 19 24. 32 22. 26 19. 6		
13	M. Tu. W. Th. F.	25 26 27 28 29	20. 44 21. 35 22. 28	308, 22 321, 44 335, 1 348, 21 2, 0	328, 23 341, 40 355, 7	17. 6 12. 6 6. 22 0. 9 S 6. 14 N	14. 40 9. 19 3. 18 S 3. 3 N 9. 19		
16 17 18 19 20	Sa. Sa, M. To. W.	3 4 5	0. 21 1. 21 2. 22	16. 9 30. 57 46. 23 62. 13 78. 1	38. 36 54. 16 70. 9	12. 18 17. 38 21. 46 24. 21 25. 15	15. 5 19. 52 23. 16 25. 1		
21 22 23 24 25	Th. F. Sa. Su. M.	6	5, 20 6, 11 6, 58	93. 20 107. 48 121. 16 133. 45 145. 29	114. 39 127. 37 139. 42	24. 30 22. 22 119. 6 115. 2	23. 35 20. 51 17. 9 12. 48 8. 1		
25 27 28 29 30	W 1991	11	9. 3 9. 44 10. 25	156. 38 167. 28 178. 13 189. 5 200. 14	172. 50 183. 3' 194. 3'	4 32 8			
	111	L	S September 2		1 11 1		+ 1		

A D D L L									
1000	A	PRI	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	68	[4	3]			
Week Days of 1 Month	Semidr. Dat Noon.	Semid ^r .) at Mid- night.	D at	Hor. Par. Dat Midnight.	gar. at M Proport. gar. at No	Propert.			
the the	1 11	1.11	1 11	1 11	Lo.	Lo			
1 F. 2 Sa. 3 Su. 4 M. 5 Tu.	14. 44 14. 44 14. 47 14. 51	14. 44 14. 45 14. 49 14. 53	54. 6 54. 3 54. 6 54. 15 54. 29	54. 4	5221 52 5225 52 5221 52 5209 52 5190 51	23 16 01			
6 W. 7 Th. 8 F. 9 Sa. 10 Su.	14. 56 15. 4 15. 14 15. 25 15. 39	15. 0 15. 9 15. 19 15. 32 15. 46	54. 50 55. 18 55. 53 56. 36 57. 25	55: 34 55: 34 56. 13 56. 59 57: 51	5 162 51 5 125 51 5 080 50 5 025 49 4 9 6 2 49	04 54 95			
11 M. 12 Tu. W. 13 W. Th. 15 F.	15. 53 16. 8 16. 22 16. 34 16. 42	16. 0 16. 15 16. 28 16. 38 16. 44	58, 18 59, 12 60, 4 60, 47 61, 17	58. 45 59. 39 60. 27 61. 4 61. 25	4896 48 4830 47 4766 47 4715 46 4679 46	97 39 94			
16 Sa. 17 Su. 18 M. 19 Tu. 20 W.	16, 45 16, 43 15, 36 16, 24 16, 10	16. 45 16. 40 16. 30 16. 17 16. 2	61. 28 61. 21 60. 54 60. 12 59. 19	61, 27 61, 9 60, 35 59, 47 58, 51	4566 46 4675 46 4797 47 4757 47 4821 48	88 29 87			
21 Th. 22 F. 23 Sa. 24 Su. 25 M.	15. 54 15. 39 15. 24 15. 12 15. 2	15. 46 15. 31 15. 18 15. 6 14. 58	58. 22 57: 25 56. 32 55. 46 55: 9	57-53 56-58 56-8 55-26 54-54	4891 49 4962 49 5029 50 5089 51 5137 51	97			
26 Tu. 27 W. 28 Th. 29 F. 30 Sa.	14. 54 14. 49 14. 46 14. 44 14. 45	14. 51 14. 47 14. 45 14. 45 14. 46	54-40 54-21 54-10 54-6 54-9	54. 30 54. 15 54. 8 54. 7 54. 12	\$175 51 \$201 52 \$215 52 \$221 52 \$217 52	18			
		No.	V 1972 POST	100 4	10	1			

[42]		-10	AP	RIL	1768.		70
Days of the Month.	Days of the Week,)'s Age.	D's Pafs- age over Merid.	D's Right Afcen, at Noon.	p'sRight Afc, at Midn.		D's De- clin, at Midn.
1 2 3 4 5	F. Sa. Su. M. Tu.	15 16 17 18	11. 38 12. 20 13. 3 13. 49 14. 38	181. 2 191. 57 203. 12 214. 56 227. 13	186. 27 197. 31 209. 0 221. 0 233. 35	14. 59	8, 10 S 12, 50 17, 1 20, 32 23, 12
6 7 8 9	W. Th. F. Sa. Su.	20 21 22 23 24	15. 28 16. 21 17. 15 18. 9 19. 1	240. 6 253. 28 267. 11 281. 2 294. 48	246. 44 260. 18 274. 6 287. 57 301. 36	25. T4 25. 5 23. 39	24, 51 25, 19 24, 32 22, 26 19, 6
13	M. Tu. W. Th. F.	25 26 27 28 29	21, 35	308. 22 321. 44 335. 1 348, 21 2. 0	328, 23 341, 40 355, 7	17. 0 12. 6 6. 22 0. 9 S 6. 14 N	14. 40 9. 19 3. 18 S 3. 3 N 9. 19
16 17 18 19 20	Su, M. Tu.	3 4 5	0. 21 1. 21 2. 22	16. 9 30. 57 46. 23 62. 13 78. 1	38. 36 54. 16 70. 6	12, 18 17, 38 21, 46 24, 21 25, 15	15. 5 19. 52 23. 16 25. 1 25. 4
21 22 23 24 25		6 7 8 9	5. 20 6. 11 6. 58	93. 20 107. 48 121. 16 133. 45 145. 29	114. 39 127. 31 139. 42	24. 30 22. 22 719. 6 215. 2 710. 27	23. 35 20. 51 17. 9 12. 48 8. 1
25 27 28 29 30	W. Th. F.	112	9. 3 9. 44 10. 25	156. 38 167. 28 178. 13 189. 5 200. 14	172. 50 183. 3 194. 3		
-		1			1 1 1		4 3

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11 -	A.	A	PRI		68.		43]			
Days of Month	Days of 1 Week	Semidi. D at Noon.	Semid [‡] . D at Mid- night.	n at	Hor. Par.) at Midnight.	Proport.	Proport.			
the l	the	2 11	1.11	1 11	1 11	Lo-	Lo-			
3 4 5	F. Sa. Su. M. Tu.	14. 44 14. 44 14. 47 14. 51	14. 44 14. 45 14. 45 14. 49 J4. 53	54. 6 54. 3 54. 6 54. 15 54. 29		5221 5225 5221 5209 5190	5223 5216 5201			
6. 7. 8. 9.	W. Th. F. Sa. Su.	14. 56 15. 4 15. 14 15. 25 15. 39	15. 0 15. 9 15. 19 15. 32 15. 46	54. 50 55. 18 55. 53 56, 36 57. 25	55. 34 55. 34 56. 13 56. 59 57. 51	5162 5125 5080 5025 4962	5054 4995			
11 12 13 14 15	M. Tu. W. Th. F.	15. 53 16. 8 16. 22 16. 34 16. 42	16. 0 16. 15 16. 28 16. 38 16. 44	58, 18 59, 12 60, 4 60, 47 61, 17	58. 45 59. 39 60. 27 61. 4 61. 25		4797			
16 17 18 19 20	Sa. Su. M. Tu. W.	16. 45 16. 43 16. 36 16. 24 16. 10	16. 45 16. 40 16. 30 16. 17 16. 2	61. 28 61. 21 60. 54 60. 12 59. 19	61. 27 61. 9 60. 35 59. 47 58. 51	4675 4797 4757	4668 4688 4729 4787 4855			
21 22 23 24 25	Th. F. Sa. Su. M.	15, 54 15, 39 15, 24 15, 12 15, 2	15. 46 15. 31 15. 18 15. 6 14. 58	58. 22 57. 25 56. 32 55. 46 55. 9	57. 53 56. 58 56. 8 55. 26 54. 54	4952 5029 5089	4927 4997 5060 5115 5157			
26 27 28 29 30	Tu. W. Th. F. Sa.	14. 54 14. 49 14. 46 14. 44 14. 45	14. 51 14. 47 14. 45 14. 45 14. 46	54. 40 54. 21 54. 10 54. 6 54. 9	54. 30 54. 15 54. 8 54. 7 54. 12	5201 5215 5221	5189 5209 5218 5220 5212			
			11-1	All Park	199	107	1			

Ti	44]	APRIL	768.	
	Diffances of	of D's Center from Stars,	and from o	eaft of her.
1	Stars Stars	Noon. 3 Hours	6 Hours.	9 Hours
1	Names.	0 1 11 0 1 11	0 1 11	0/1 11
1	1 Spica my	17. 35. 7 16. 7. 42	14. 40. 38	13. 13. 57
1	Antares.	51. 14. 41 49. 46. 0 39. 24. 56 37. 56. 8	48. 17. 18 36. 27. 18	46. 48. 36 34. 58. 27
200	4 5 a Aquilæ.	83. 16. 40 81. 58. 12 72. 49. 58 71. 31. 54 62. 20. 13		79. 21. 21 68. 56. 8
31-16	6 3 Capri	58. 25. 47 56. 55. 10 46. 16. 10 44. 44. 12 33. 54. 49	55. 24. 23 43. 12. 3	53. 53. 26 41. 39. 43
大大の	8 9 2 Pegañ.	83. 46. 5 82. 15. 7 71. 32. 0 69. 59. 9		79. 12. 32 66. 52. 44
38	18	111. 40. 54 110. 14. 31	108. 47. 51	
200	The Sun.	100. 1.54 98.33.10 88. 2.35 86.31.5 75.39.49 74. 5.12	84. 59. 12	83. 26. 57
27.	12	62. 51. 34 61. 13. 42 49. 37. 44 47. 56. 49	59. 35. 26 46. 15. 32	57. 56. 46 44. 33. 54
100	18 19 Pollux.	59. 45. 5 57. 54. 5 45. 8. 35 43. 21. 1		
田が明め	20 21 22 Regulus. 23	53. 34. 49 51. 52. 59 40. 12. 22 38. 34. 2 27. 18. 19 25. 43. 3	4 36. 56. 13	48. 30. 29 35. 18. 48
死人の	24 25 26 Spica IR 27	32. 22. 10 30. 53. 3	9 53. 17. 23 9 41. 16. 29 1 29. 27. 6	51. 46. 38 39. 47. 6 27. 56. 35
ST. W.	28 29 30 Antares.	20. 36. 21 19. 8. 4 54. 18. 16 52. 49. 4 42. 28. 41 40. 59. 4 30. 36. 14	51.21.	49. 52. 25

1			ALL PROPERTY AND ADDRESS OF THE PARTY AND ADDR	RIL	THE RESERVE THE PARTY OF THE PA	[[45]
ğ	1	Diffances o	of D's Cente	er from O, a	and from Star	s eath of her.
	Days.	Stars	12 Hours.	15 Hours.	18 Hours.	21 Hours.
	(S)	Names.	1 0 1 10	i a in	10	The state of the s
7	1	T. 105	6 1 11	0 1 11	0 / 11	0 / 11
3	1	Spica III	11. 47. 41	2.72 0	4.02.4	In A
100	2 2 3	Antares,			54. 12. 6 42. 22. 27	
1	345	z Aquilæ.	88. 30. 33	79. 12. 5 76. 44. 37 66. 20. 53	75. 26. 20	84. 35. 9 74. 8. 7 63. 46. 15
Pr. Can	6	corni.	52. 22. 19			47. 47. 58
	9	a Pegafi.	77. 40. 55	76. 9. 3 63. 45. 25	74. 36. 57 62, 11. 27	73. 4. 35 60. 37. 16
として からかい	7 8 9 10 11 12	The Sun.	105. 53. 42 94. 4. 57 81. 54. 18 69. 18. 56	104, 26, 12 92, 34, 53 80, 21, 16 67, 42, 42 54, 38, 17		101. 30. 18 89. 33. 42 77. 14. 2 64. 29. 1
	18	Pollux.		50.34. 6	48. 45. 8	
	20 21 22 23	Regulus.	46. 49. 57	58. 43. 16 45. 9. 53 32. 5. 16 19. 29. 38	56. 59. 59 43. 30. 16 30. 29. 10	55. 17. 10 41. 51. 5 28. 53. 31
The same of	24 25 26 27 28	Spica TR	62. 26. 14 50. 16. 6 38. 17. 52	60. 54. 11	59. 22. 22 47. 15. 33 35. 19. 46	57. 50. 47 45. 45. 32 33. 50. 54
1	28	Antares.	60, 12. 31	46.55. 2	57. 15. 24 45. 26. 17 33. 34. 43	43. 57. 30

[46		-	IL	The state of the s	
	Diftances o	of D's Cente	r from Stars,	and from O	west of her.
Days.	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours
V	1 3 1	9 1 11	0 1 11	0 1 11	0 1 11
1 2 3	Regulus.	36. 56. 52 48. 43. 51 60. 31. 51	38. 25. 12 50, 12. 16 62. 0. 29	39. 53. 33 51. 40. 43 63. 29. 9	41. 21. 54 53. 9. 11 64. 57. 51
4 56 78 9	Spica ng	18. 25. 13 30. 15. 13 42. 14. 47. 54. 24. 40 66. 47. 49 79. 27. 36	19. 53. 19 31. 44. 39 43. 45. 24 55. 56. 46 68. 21. 49		22, 50. 11 34. 43. 56 46. 47. 7 59. 1. 38 71. 30. 37
9	Antares.	33. 45. 0 46. 45. 38 60. 9. 57	35. 21. 24 48. 24. 49 61. 52. 17	50. 4. 23 63. 35. 1	38. 35. 11 51. 44. 20 65. 18. 11
12	corni.	19. 27. 51	21. 12. 0 35. 25. 30	22. 56. 50 37. 14. 20	24. 42. 16 39. 3. 35
14	z Aquilæ.	53. 56. 56	55. 28. 11	111-110	58. 33. 49
19 20 21	06 05 10	48. 20. 33 61. 11. 46	62. 46. 15	64. 20. 19	53. 12. 55 65. 53. 57
24	THE REAL PROPERTY.	73. 35. 51 85. 34. 28 97. 10. 43	75. 7. 0 87. 2. 37 98. 36. 25	88. 30. 26 100. 1. 50	89. 57. 55
25		108, 28, 51	120. 55. 34	111, 16, 2	112. 39. 21
23	Aldeba- ran.	52. 52. 16 65. 17. 42	54. 26. 20 66. 49. 44	56. 0. 10	57. 33. 45 69. 53. 6
25 26		35.33. 8 47.25.44		38. 31. 42 50. 23. 3	40. 0. 54 51. 51. 36
27 28 29 30 M1	Regulus.	22. 12. 47 33. 56. 16 45. 41. 22 57. 28. 45 69. 19. 52	47· 9· 38 58· 57· 24	36. 52. 26 48. 37. 56	38. 20. 33 50. 6. 17
	- 1				113

APRIL 1768. [47]					
Distances of) s Center from Stars, and from o west of her.					
	Stars Vames,	12 Hours.	15 Hours.	18 Hours.	21 Hours.
	egulus.	42. 50. 16 54. 37. 40 66. 26. 35	6 / // 44. 18. 39 56. 6. 10		47. 15. 26 59. 3. 16
7 8	oica ng	12. 35. 40 24. 18. 53 36. 13. 47 48. 18. 14 60. 34. 24 73. 5. 26	25.47.45	15. 29. 48 27. 16. 46 39. 13. 59 51. 21. 4 63. 40. 37 76. 15. 56	28. 45. 55 40. 44. 19 52. 52. 46 65. 14. 5 77. 51. 37
9 10 A	ntares.	49. 12. 36 53. 24. 40 67. 1. 46	41. 50. 19	43. 28. 24 56. 46. 30	58. 28. 2
	Capri- corni.	12. 39. 7 26. 28. 15 40. 53. 14	14. 20. 2 28. 14. 43	16. 1.50 30. 1.41	
13 z	Aquilæ.	48. 4. 27 50. 8. 4	49. 30. 32		
19 20 21 22 T 23 24 25	he Sun.	67. 27. 11 79. 38. 11 91. 25. 4 102. 51. 50	81. 7.49 92.51.54 104.16.26	58. I. 30 70. 32. 19 82. 37. 4 94. 18. 28 105. 40. 48	59. 36. 50 72. 4. 18
23 1	Aldeba- ran.	59· 7· 4 71. 24. 25	60.40. 6	62. 12. 53	63. 45. 25
24	ollux.	29. 35. 28 41. 30. 2 53. 20. 3	31. 4. 54 42. 59. 5	32. 34. 20 44. 28. 3	34. 3. 45 45. 56. 56
26 27 28 R 29 30	egulus.	16. 23. 6 28. 4. 16 39. 48. 41 51. 34. 40 63. 23. 45	29. 32. 14 41. 16. 49 53. 3. 6	42. 44. 59 54. 31. 36	32. 28. 14 44. 13. 10 56. 0. 9

48] APRIL 1768.

Configurations of the SATELLITES of JUPITER at 9 o'th' Clock in the Evening.

B. William	
1	3, 201 0
2	
31	3 4 0 2. 4.
4	2. 1, 0 4. 3
2 3 4 5 2.0	
6	4. 7. 0 2. 3.
7 30	4. 2 0 4
81 - 4.	3. 12.1 ①
91.4	•3 ① 1. •2
10 "	3 .1 ① 2,
11/10	-4 2, ⊙ -3
12 2.0	3 · · · · · · · · · · · · · · · · · · ·
13/4.0	1. 0 2. 3.
14/30	1. Q 2. 3.
15	2.1 () (4
15	3 0 , 3
171	3 4 0 2
181	2
17[18] 19]1.0	·10
20	1. O ·2 4·3.
21	0403
32	3.2401 ⊙
23	4:3. 0 12
24	4 3 .1 ⊙ 2.
25 1	2. O 1.
26 4	.2 ① .3 1,0
271	1,0 4
28 2 0	O 3
29 30	1.104 ©
301	3. 0 284 "
-	

	M A Y 1768. A [49]								
Days of	Days of Week	Sundays, Holidays, &c.	Phases of the Moon.						
of the	the	thus and was	Full Moon — 1, 12, 27 Laft Quarter — 9, 5, 56						
2 3	Su. M. Tu.	From Eatt. in 1 m. 3 ret.	New Moon—15. 20. 10 First Quarter — 22. 23. 57. Full Moon — 31. 3. 10						
4 5	W. Th.	and the control of the control	Other Phenomena,						
6 7 8	F. Sa.	Sunday.	2. 1/2 θ mg diff. Lat. 13'. 3. (σ m 9 h 10'.						
9	Su. M. Tu.	From Eatt. in 5 weeks,	10. (0 m 0 16'.						
11	W. Th.	Afcention day, Hol. Th.	13. (n × 16h 37'. 16. b μ II diff. Lat. 14'. 17. (3 post ζ & 15h 21'.						
13	F. Sa. Su.	Morrow of Afcen. 5 ret. Sund. after Afcension-day.	20. ⊙ enters II at 3h 15'.						
16	M. Tu.	Term ends.	22. (σ Ω 1h o'. (π Ω 10h 56'. 30. (σ M 15h 32'.						
18	W. Th. F.	Q. Charlotte born 1744, [Dunit, Ox., ter. ends.	31. (0 Ophinchi 17h 53'.						
21	Sa.		300						
22 23 24 25	Su. M. Tu. W.	Whit Sunday. Whit-Monday. Whit-Tuefday.							
26 27 28	Th. F. Sa.	Augustin 1st Abp. Cant Venerable Bede.	217						
30	Su. M.	Trin. Sun. K. Ch.II. reft On mor. of H. Tr. 1 ref							
31	Tu.	10.00	100						

[50		My	AY	768.		
Month.	Days of the Week.	Sun's Longitude.	Sun's Right Afc. in Time.	North.	Equat. of Time Sub.	Diff.
1 2 3 4 5	Su. M. Tu. W. Th.	1. 11. 32. 55 1. 12. 30. 58 1. 13. 29. 0 1. 14. 27. 0 1. 15. 24. 58	2. 40. 15 2. 44. 5 2. 47. 55	15. 19. 1 15. 36. 50 15. 54. 24 16. 11. 42 16. 28. 44	3.20,5 3.27,1 3.33,2	7,2 6,6 6,1 5,6
6 7 8 9 10	F. Sa. Su. M. Tu.	1. 16. 22, 56 1. 17, 20, 52 1. 18. 18. 47 1. 19. 16. 40 1. 20. 14. 33	2. 59. 30 3. 3. 23 3. 7. 17	16. 45. 30 17. 1. 59 17. 18. 11 17. 34. 6 17. 49. 44	3.48,1 3.51,9 3-55,1	5,0 4,3 3,8 3,2 2,6
11 12 13 14 15	W. Th. F. Sa.	1. 21. 12. 24 1. 22. 10. 14 1. 23. 8. 3 1. 24. 5. 51 1. 25. 3. 37	3. 19. 0 3. 22, 56 3. 26, 52	18. 5. 4 18. 20. 6 18. 34. 49 18. 49. 15 19. 3. 21	3.59,7 4. 1,1 4. 1,8 4. 2,0 4. 1,6	2,0 I,4 0,7 0,2 0,4
16 17 18 19 20	M. Tn. W. Th. F.	1. 26. 1. 23 1. 26. 59. 7 1. 27. 56. 50 1. 28. 54. 31 3. 29. 52: 11	3. 38. 45 3. 42. 44 3. 46. 42	19. 17. 8 19. 30. 35 19. 43. 42 19. 56. 30 20. 8. 57	4. 0,6 3.59,1 3.57,0 3.54,4 3.51,2	1,0 1,5 2,1 2,6 3,2
21 22 23 24 25	Sa. Su. M. Tu. W.	2. 0. 49. 49 2. 1. 47. 26 2. 2. 45. 1 2. 3. 42. 35 2. 4. 40. 7		20. 55. 16	3.47.5 3.43.3 3.38,6 3.33.4 3.27.7	3,7 4,2 4,7 5,2 5,7
29	Th. F. Sa. Su. M.	2. 5. 37. 38 2. 6. 35. 8 2. 7. 32. 36 2. 8. 30. 3 2. 9. 27. 28	4. 14. 51 4. 18. 55 4. 22. 59 4. 27. 2 4. 31. 7	21. 35. 48	3.21,5 3.14,9 3. 7,9 3. 0,4 2.52,4	6,2 6,6 7,0 7,5 8,0
31	Tu.	2. 10. 24. 54	4- 35. 12	22. 2.20	2-44,1	8,3

	MAY 1768. [51]								
Days.	meter of	Time of D° pailing the Meridian.	Hourly Motion of the Sun.	Logarithm of the Sun's Distance.	Place of the Moon's Node.				
0,0	No.W	2 1 11	1 11	(the state	5 0 1				
1 7 13 19 25	15. 54. 3 15. 53, 0 15. 51, 8 15. 50, 7 15. 49, 7	1. 6, 4 1. 6, 9 1. 7, 4	2, 24, 8 2, 24, 5 2, 24, 1	o. 003798 o. 004418 o. 004998 o. 005506 o. 005937	9. 15. 44 9. 15. 25 9. 15. 6 9. 14. 47 9. 14. 28				

Ecliples of the SATELLITES of JUPITER.

	Satellite. merfions.	1000	Satellite. Emerfions.	1	II. Satellit	41
D.	h F //	D.	h / 11	D.	= N / N	0.5
2 4 6 7 9 11 13 15 16 18 20 22 23 25 27 29 30	15. 53. 17 10*22. 13 4. 51. 0 23. 19. 49 17. 48. 37 12* 17. 18 6. 46. 3 1. 14. 45 19. 43. 26 14* 12. 2 8* 40. 42 3. 9. 14 21. 37. 52 16. 6. 25 10* 34. 57 5. 3. 25 23. 31. 57	1 5 9 12 16 19 23 26 30	23. 42. 0 12*59. 35 2. 16. 53 15. 34. 11 4. 51. 24 18. 8. 34 7. 25. 42 20. 42. 45 9*59. 50	13 20 20 27 27 27 10 8 25	0. 3. 4. 1.2 5. 50. 4 7*59. 11 9*49. 2 11*56. 5 7. Satellite	EEEE

	- Geocen- Geocen- Declina- Pallage								
gitude. tude.	tric Lon trie La tion. over titude. Merid.								
5 0 1 0 1	s 0 / 0 / h /								
SEAL PROPERTY.	MERCURY.								
1 9. 12. 23 5. 51 7 10. 0. 54 6. 45 13 10. 21. 48 6. 57 19 11. 16. 18 6. 1 25 0. 15. 40 3. 31	5 0. 15, 6 2. 59 5 5. 12 N 22. 25- 0. 22. 33 2. 58 6. 3 22. 30 1. 1. 26 2. 34 9. 36 22. 38 1. 11. 38 1. 51 13. 35 22. 55: 1. 23. 7 0. 55 17. 40 23. 18								
231 01131 401 3131	VENUS.								
111. 4. 5 3. 20 7 11. 13. 36 3. 23 13 11. 23. 7 3. 21 19 0. 2. 40 3. 13 25 0. 12. 13 3. 0	S 0, 14, 1 1, 40 S 4, 0 N 22, 19 0, 21, 16 1, 40 6, 45 22, 23 0, 28, 33 1, 37 9, 28 22, 26 1, 5, 51 1, 32 12, 3 22, 30 1, 13, 8 1, 24 14, 28 22, 35								
ATTENDED TO	M A R S.								
1 9. 13. 33 1. 31 7 9. 17. 9 1. 35 13 9. 20. 47 1. 39 19 9. 24. 27 1. 42 25 9. 28. 9 1. 44	S [10, 26, 45] 1, 39 S 14, 10 S 19, 21 11, 1, 1 1, 46 12, 47 19, 15 11, 5, 17 1, 54 11, 21 19, 8 11, 9, 32 2, 2 9, 53 19, 0 11, 13, 44 2, 8 8, 22 18, 50								
The State of the S	JUPITER.								
1 6. 19. 52 1. 18 7 6. 20. 19 1. 17 13 6. 20. 46 1. 17 19 6. 21. 14 1. 17 25 6. 21. 41 1. 17	N 6. 15. 8 1. 34 N 4. 32 S 10. 21 6. 14. 34 1. 32 4. 19 9. 56 6. 14. 3 1. 31 4. 8 9. 30 6. 13. 38 1. 30 4. 0 9. 4 6. 13. 20 1. 28 3. 55 8. 38								
2053300	SATURN.								
1 3. 5. 15 0. 42 7 3. 5. 29 0. 41 13 3. 5. 42 0. 41 19 3. 5. 56 0. 40 25 3. 6. 9 0. 40	3. 1. 2 0. 38 22. 50 3. 5 3. 1. 41 0. 38 22. 50 2. 45								

			A Y 1768		[53]
Days of the Month.	Days of the Week.	gitude at Noon.	Moon's Longitude at Midnight.	titude at Noon.	Moon's Latitude at Midn.
1 4 10 4 5	Su. M. Tu. V. Th.	7. 5.50. 3 7. 17. 49.54 7. 29. 55. 11 8. 12. 7.31 8. 24. 28. 29	7. 23. 51. 47 3. 6. 0. 26 8. 18. 16. 44	4. 12. 25 3. 31. 36 2. 40. 39	4.28.32 S 3.53.22 3. 7.17 2.11.53 1. 9.23
6 78 9	E. Sa. Su. M. Tu.	9. 19. 45. 5 ² 10. 2. 47. 45 10. 16. 9. 3	9. 13. 21. 13 9. 26. 14. 34 10. 9. 25. 45 10. 22. 57. 40 11. 6. 52. 1	0, 31, 59 N 1, 40, 6 2, 44, 31	0 2,21 S 1. 6.16 N 2.13. 1 3.14.11 4- 5.39
11 12 13 14 15	W. Th. F. Sa. Su.	11. 13. 57. 51 11. 28. 25. 57 0. 13. 13. 0 0. 28. 12. 49 1. 13. 16. 44	0. 5.47.24 0. 20.41.49 1. 5.44.50	4. 56. 3 5. 6. 46 4. 56. 55	4.43.32 5. 3.56 5. 4.26 4.44. 5 4. 4. 6
16 17 18 19 20	M. Tu. W. Th. F.	1. 28. 15. 8 2. 12. 58. 42 2. 27. 20. 18 3. 11. 15. 42 3. 24. 43. 51	2. 20. 12. 32 3. 4. 21. 23 3. 18. 3. 9	2. 35. 15 1. 24. 8 0. 9. 50 N	3-7.54 2. 0.34 0.47- 4 N 0.26.54S 1.37- 7
21 22 23 24 25	Sa. Su. M. Tu. W.	4. 7. 46. 6 4. 20. 25. 46 5. 2. 46. 34 5. 14. 53. 31 5. 26. 51. 21	4. 26. 38. 7 5. 8. 51. 30 1 5. 20. 53. 19	3. 8. 26 3. 56. 52 4. 33. 41	2.40.17 3-34- 3 4.16.47 4.47.28 5- 5.23
26 27 28 29 30	Th. F. Sa. Su. M.	6. 8. 44. 26 6. 20. 36. 3 7. 2. 31. 1 7. 14. 31. 1 7. 26. 38. 26	6. 26. 33. 22 7. 8. 30. 23 7. 20, 33. 49	5. 7.31 4.52.20	5.10. 7 5. 1.34 4.39.52 4. 5.32 3.19.45
31	Tu.	8. 8. 54. 3	8. 15. 6. 18	3 2. 52. 56	2,23,57

[54]			M		1768.	BALL	-
Days of the Month.	Days of the Week.) 's Age.	D's Passage over Merid.	Afcen. at Noon.	Afc. at	D's De- clination at Noon.	clination
1 2 3 4 5	Su. M. Tu. W. Th.	16 17 18 19 20	11. 53 12. 41 13. 31 14. 23 15. 16		230. 26 243. 31 257. 2	23.36	19. 39 S 22. 32 24. 25 25. 8 24. 38
6 7 8 9	F. Sa. Su. M. Tu.	21 22 23 24 25	16. 59 17. 50 18. 41	277. 40 291. 19 304. 41 317. 46 330. 40	284. 31 298. 2 311. 16 324. 14 337- 5	21. 29 17. 57 13. 24	22. 50 19. 51 15. 47 10. 49 5. 12 S
11 12 13 14 15	W. Th. F. Sa. Su.	26 27 28 29	21, 11 22, 5 23, 3	343. 31 356. 35 10. 8 24. 22 39. 24	3. 17 17. 9 31. 47	THE CO. LANS.	0. 50 N 6. 57 12. 47 17. 55 21. 54
16 17 18 19 20	M. Tu. W. Th. F.	3 4 5 6	1. 9 2. 11 3. 9	55. 7 71. 11 87. 4 102. 16 116. 28	79. 11		24. 21 25. 7 24. 11 21. 48 18. 19
21. 22. 23. 24. 25	Sa. Su. M. Tu. W.	110	6. 21	129: 37 141: 49 153: 19 164: 20 175: 8	158. 52	11. 43	14. 3 9. 18 4. 17 N 0. 47 S 5. 47
26 27 28 29 30	Th. F. Sa. Su. M.	12 12 12 12 16	9. 5 9. 49 10. 36	185. 58 197. 3 208. 34 220. 40 233. 23	202. 44 214. 32 226. 57	8. 12 12. 48 16. 56 20. 25 23. 3	10. 33 14. 56 18. 46 21. 51 24. 0
31	Tu.	1	12. 18	246, 43	253. 32	24. 40	25. 2

	M A Y 1768. [55]								
Days of the Month.	Days of the Week.	Semid. Dat Noon.	Semidr. p at Mid- night.	D at	H Par.	Proport, Logar, at Noon.	Proport, Logar, at Midn.		
1 2 3 4 5	Su. M. Tu. W. Th.	14. 47 14. 51 14. 56 15. 2 15. 9	14. 49 14. 53 14. 59 15. 5 15. 13	54 17 54 30 54 47 55 10 55 36	54. 23 54. 38 54. 58 55. 22 55. 51	5206 5189 5166 5156 5102	5178		
6 7 8 9	F. Sa. Su. M. Tu.	15. 18- 15. 28 15. 38 15. 50 16. 2	15. 22 15. 33 15. 44 15. 56 16. 8	56. 8 56. 44 57. 24 58. 7 58. 52	56. 25 57. 3 57. 45 58. 30 59. 14	5061 5014 4964 4910 4854	4990 4937 4881		
11 12 13 14 15	W. Th. F. Sa. Su.	16. 14 16. 25 16. 33 16. 37 16. 37	16. 20 16. 29 16. 36 16. 38 16. 35	59. 36 60. 14 60. 44 61. 0 60. 59	59. 56 60. 30 60. 54 61. 2 60. 53	4800 4754 4718 4699 4700	4735 4707 4697		
16 17 18 19 20	M. Tu. W. Th. F.	16. 32 16. 23 16. 11 15. 56 15. 41	16. 28 16. 17 16. 4 15. 49 15. 34	60. 42 60. 9 59. 22 58. 29 57. 34	60. 27 59. 47 58. 56 58. 2 57. 6	4721 4760 4817 4882 4951	4787 4849 4916		
21 22 23 24 25	Sa. Su. M. Tu. W.	15. 27 15. 14 15. 3 14. 55 14. 50	15. 20 15. 8 14. 59 14. 52 14. 48	56. 40 55. 53 55. 14 54. 45 54. 25	56. 16 55. 33 54. 58 54. 34 54. 19	5080 5130 5169			
26 27 28 29 30	Th. F. Sa. Su. M.	14. 47 14. 47 14. 49 14. 53 14. 58	14. 47 14. 48 14. 50 14. 55 15. 1	54. 16 54. 14 54. 22 54. 36 54. 55	54. 14 54. 18 54. 28 54. 45 55. 6	5210 5199 5181	5210 5205 5191 5169 5141		
31	Tu.	15. 4	15. 8	55. 18	55.31	5125	5108		

15	[56] MAY 1768.							
G	Distances of p's Center from Stars, and from @ east of her							
Days.	Stars Names.		3 Hours.		9 Heurs.			
	-	0 1 11	0 / //	0 / //	0 1.11			
1 2 3	a Aquilæ.	75. 24. 57 64. 56. 52	84. 37. 45 74. 6. 5 63. 39. 0	83. 18. 45 72. 47. 18 62. 21. 21	81. 59. 45 71, 28. 36 61, 3. 56			
4 5	l'omal- haut.	78. 17. 20 67. 10. 9	76. 54. 0 65. 46. 51	75. 30. 38 64. 23. 39	74. 7. 14 63. 0. 33			
6 78 9	a Pegafi.	74, 26, 34, 62, 7, 29 49, 41, 2 37, 15, 41	0 0		69, 50, 34 57, 28, 11 45, 0, 27			
78 9 10 11 12 13	The Sun.	117. 34. 56 105. 30. 38 93. 7. 25 80. 23. 48 67. 18. 53 53. 53. 37 40. 11. 22	103. 58. 49	63. 59. 23	100, 54, 16 88, 23, 32 75, 31, 56 62, 19, 10			
17 18 19 20 21	Regulus.	73. 38. 0 59. 16. 34 45. 21. 16 31. 55. 9 19. 1. 26	57. 30. 39 43. 38. 51	55.45. 9 41.56.54 28.38.26	68. 12. 14 54. 0. 5 40. 15. 26 27. 0. 50 14. 22, 31			
22 24 25 26	Spica TR	60. 8. 3 47. 48. 40 35. 45. 13 23. 53. 49 12. 15. 36	34. 15. 41 22. 25. 39	57. 1. 29 44. 46. 27 32. 46. 20	43. 15. 42 31. 17. 9			
20	Antares.	57- 34-45 45-45-47 33-54-11	44. 17. 4	42. 48. 17	41. 19. 27			
30	a Aquite	07. 40. 17		65. 8. 34	74. 22, 12 63, 49, 55			
I	Fomal- haut.	81. 13. 6	1 17 17 1	78. 25. 8	77. 1, 3			

-	MAY 1768. [57]							
	Distances	of D's Cente	er from Stars,	and from G	east of her.			
Days	Stars	12 Hours.	15 Hours.	18 Hours.	21 Hours.			
	Names.	0 1 11	0 1 11	0 1 11	0 1 11			
1 2	a Aquilæ.	80. 40. 46	79. 21. 46 68. 51. 29	78. 2.48 67.33. 8	76. 43. 52 66. 14. 55			
3	1000 at	59. 46 45	1000	Dest of				
3	Fomal-	83. 50. 13 72. 43. 48	82. 27. 5	81. 3.53 69.56.56	79. 40. 38			
5	haut.	61. 37. 34	71. 20. 22	19. 30. 30	William C			
5	Disc	80. 32. 21 68. 18. 15	79. 1. 9	77. 29. 47 65. 13. 8	75. 58. 15			
7	αPegafi.	55- 54- 54	54. 21. 31	52, 48, 4	51. 14. 34			
6	California Contraction	43. 27. 5	41-53-53		38, 48, 9			
1000	-	111. 35. 0		108, 33, 22	119. 4. 14			
78	The Sun.	99: 21: 32	97. 48. 28	96, 15, 6				
9	The Sun.	73. 53. 59	85. 12. 38 72. 15. 42		82. 0. 25 68. 58. 9			
11	130.12	60. 38. 38	58. 57. 48	37. 16. 41	55. 35. 18			
12	W 190	47 4 19	45, 21, 24	43. 38. 15				
17	200.000	66. 24. 21	50, 31, 13					
	Regulus.	38. 34. 25	36. 53. 53	35. 13. 49	33. 34. 15			
20 21	-3 -(4)	25. 23. 46 12. 51. 25	23-47-15	22. 11. 20	20, 36, 2			
21	126 112	66. 25. 8	64. 50. 21	63. 15. 54	61. 41. 49			
22	Spica ng	53. 56. 8	52. 23. 52 40. 14. 53	50. 51. 52 38. 44. 48	49, 20, 8			
24	BUTO	29. 48. 9	28. 19. 18	26. 50. 38	25. 22. 8			
25	Division	18. 2. 28	16. 35. 16	15. 8. 23	13. 41. 49			
26	Antares.	51. 40. 24 39. 50. 34	50. 11. 47. 38. 21. 35	48. 43. 8	47. 14. 28			
28		27. 56. 34		THE STREET	3, 3			
28	A Agric	83.37.40	82, 18, 23		79. 39. 41			
29 30	a Aquila.	73. 2. 53 62. 31. 25	71. 43. 37	70. 24. 25	69. 5. 18			
30	Fomal-	86. 47. 53		84. 0. 42	82. 36. 57			
31	haut.	75. 36. 55	74. 12. 44	72. 48. 32	71. 24. 18			
page.	Section Section 1	The state of the last	ALCOHOLD CO.	LAT-REAL	The state of the s			

[58] MAY 1768.								
	D flances of D's Center from Stars, and from O west of her.							
Stars	Noon	3 Hours.	6 Hours.	9 Hours.				
A Names,	0 / 11	0 1 11	0 1 11	0 1 11				
1 2 3 Spica 収 4	15. 25. 0 27. 15. 18 39. 16. 44 51. 27. 42 63. 49. 2 76. 22. 26	16. 52. 59 28. 44. 56 40. 47. 35 52. 59. 45 65. 22. 30	18, 21, 13 30, 14, 44 42, 18, 35 54, 31, 59 66, 56, 10	31. 44. 42 43. 49. 44				
6 7 8 Antares,	30 40. 59 43. 28. 46 56. 33. 1 69. 56. 0	32. 16. 5 45. 5. 51 58. 12. 18	33, 51, 26 46, 43, 12 59, 51, 54					
β Capri- corni.	15. 24. 47 28. 58. 59 43. 0. 14	30. 42. 48	18. 45. 15 32. 27. 1	34. 11. 38				
11 12 & Aquilæ. 13	74. 10. 21	63. 1.31	52. 28. 49 64. 35. 15	53. 56. 16 66. 9. 39				
13 z Pegafi.	26. 32. 14 39. 40. 49		29. 40, 27 43. 8. 57	31, 17, 7				
19 20 21 22 The Sun. 23 24		56. 24. 6 68. 26. 19 80. 5. 32 91. 25. 41 102. 31. 23 113. 27. 37	69. 54. 54 81. 31. 29 92. 49. 36 103. 53. 51 114. 49. 11	71. 23. 7 82. 57. 10 94. 13. 17 105. 16. 11 116. 10. 42				
Pollux.	43. 58. 37	57. 23. 18	58. 52. 4	48. 28. 7				
25 26 27 Regulus.	30. 41. 17 42. 26. 31 54. 12. 42 66. 2. 30	43. 54. 41	45. 22. 52	58. 38. 15				
30 Spica ng	23, 58, 39 36, 0, 43 48, 14, 58	37. 31. 51		40. 34. 41				

1			A Y 17		[59]				
中	Diffances of D's Center from Stars, and from O west of he								
Days.	Stars Vames.	12 Hours.	15 Hours.		21 Hours.				
		0 / //	0 / 1/	0 / //	0 1 11				
14	ica m	21. 18. 24 33. 14. 49 45. 21. 2 57. 36. 56	34. 45. 4 46, 52, 28 59. 9. 41	36. 15. 29 48. 24. 3 60. 42. 37	37. 46. 2 49. 55. 48 62. 15. 44				
8	ntares.	70. 4. 5 37. 2. 53 49. 58. 42 63. 12. 0	71, 38, 22 38, 38, 59 51, 36, 51 64, 52, 31	73. 12. 51 40. 15. 20 53. 15. 18 66. 33. 21	74. 47. 32 41. 51. 55 54. 54. 1 68. 14. 31				
DESCRIPTION OF THE PERSON NAMED IN	Capri- corni.	22. 7. 54 35. 56. 38	23. 49. 59 37. 42. 0	25. 32. 32 39. 27. 44	27. 15. 32 41. 13. 48				
11 a A	Aquilæ.	55. 24. 49 67. 44. 41	56, 54, 22 69, 20, 18	58. 24. 53 70. 56. 28	59. 56. 17 72. 33. 9				
141	Pegafi.	32. 55. 19 46. 39. 6	34. 34. 58	36. 15. 52	37-57-52				
18 19 20 21 22 23 24 25 23 24 25 24 25 24	7-11-	60. 57. 51 72. 50. 59 84. 22. 33 95. 36. 45	97. 0. 0 108. 0. 26	63. 58. 22 75. 45. 46 87. 12. 34 98. 23. 5	40. 45. 31 53. 19. 38 65. 28. 4 77. 12. 41 88. 37. 11 99. 46. 1 110. 44. 14				
24	gulus.	24, 48, 30 36, 33, 54 48, 19, 20 60, 6, 55 71, 59, 33	61. 35. 41	27. 44. 55 39. 30. 12 51. 15. 56 63. 4. 32	29. 13. 6 41. 58. 21 52. 44. 18 64. 33. 28				
28 29 30 31	ica 叹	18. 2. 47 29. 58. 8 42. 6. 22 54. 26. 31		32. 59. 2 45. 10. 17	22. 29. 20 34. 29. 47 46. 42. 32 59. 7. 11				

[60] M A	1-Y 17	68.	No. of Contract of
Configurations of the S	ATRITT	Es of LU	PITER
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30 4	0	4	2 4
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Total a service of the day	- trongerous	first	a series beautiful to 8 de-

-	A=>==+	JUNE 1768. [61]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c. Phases of the Moon. D. H. ' Last Quarter— 7. 12, 25 New Moon — 14, 4, 17
3 4 5	W. Th. F. Sa. Su.	Nicomed.Oxf. T. begins. First Quarter —21. 16. 4 Full Moon — 29. 15. 48 Trinity Term begins. K. Geo. III. born 1738. Other Phenomena. D. 1. (\(\lambda \) 22\(\lambda \) 21'.
6 7 8 9	M. Tu. W. Th. F.	In 8 days of H. Tr. 2 ret. 6. (6 to 6 h o'. 8. § infra Cornu bor. 9. § infra Cornu bor. 9. § infra Cornu bor. 8. § infra Cornu bor. 8. § infra Cornu bor. 9. § infra Cornu bor.
11 12 13 14 15	Sa. Su. M. Tu. W.	St. Barnabas. 2d Sunday ofter Trinity. In 15 days of H.Tr.3 ret. 14. V : II diff. Lat. 10'. 15. C h oh 16'. diff. Lat. 1° 11'. C J II 16h 53'. 18. C E St. 4h 53'.
16 17 18 19 20	Th. F. Sa. Su. M.	(0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
21 22 23 24 25	Tu. W. Th. F. Sa.	-[weeks of H. Tr. 4 ret. 29. (totally eclipfed. (o 7 21h 24!. Nativ. of St. John Bapt.
26 27 28 29 30	Su. M. Tu. W. Th.	4th Sunday after Trinity. St. Peter.
1	-	

[62]	JU	NE	768.		
Week. Days of the Mouth.	Sun's Longitude.	Sun's Right Afc. in Time.	Sun's Declin. North.	of Time Sub.	Diff.
1 W. 2 Th 3 F. 4 Sa. 5 Su. 6 M. 7 Tu.	2. 11. 22. 18	4. 39. 17 4. 43. 23 4. 47. 29 4. 51. 36 4. 55. 42 4. 59. 49	22. 10. 24. 22. 18. 6 22. 25. 24 22. 32. 19 22. 38. 51 22. 44. 57 22. 50. 41	2.35,3 2.26,2 2.16,6 2. 6,7 1.56,4	9,6 9,9 10,3 10,7
7 Tu. 8 W. 9 Th. 10 F. 11 Sa. 12 Su. 13 M. 14 Tu. 15 W.	2, 18. 3, 48 2, 19. 1, 8 2, 19. 58. 27 2, 20. 55, 46 2, 21. 53. 5 2, 22. 50. 23 2, 23. 47. 41 2, 24. 44. 58	5. 8. 5 5. 12. 13 5. 16. 21 5. 20. 30 5. 24. 39 5. 28. 48 5. 32. 57	22. 56. 1 23. 0. 57 23. 5. 28 23. 9. 34 23. 13. 17 23. 16. 35 23. 19. 29 23. 21. 58	1.23,4 1.11,8 1. 0,0 0.48,0 0.35,7 0.23,2 0.10,6	11,3 11,6 11,8 12,0 12,3 12,5 12,6 12,8
16 Th. 17 F. 18 Sa. 19 Su. 20 M.	2. 25, 42. 16 2. 26. 39. 32 2. 27. 35. 48 2. 28. 34. 3 2. 29. 31. 17	5. 41. 16 5. 45. 26 5. 49. 35 5. 53. 44 5. 57. 54	23. 24. 1 23. 25. 41 23. 26. 56 23. 27. 45 23. 28. 10	0.15,1 0.28,0 0.41,1 0.54,1 1. 7,1	12,9 13,1 13,0 13,0 13,0
22 W. 23 Th. 24 F. 25 Sa, 26 Su. 27 M. 28 Tu. 29 W.	3. 1. 25. 45 3. 2. 22. 57 3, 3. 20. 9 3. 4. 17. 21 3. 5. 14. 32 3. 6. 11. 42 3. 7. 8. 53 3. 8. 6. 3	6. 10. 23 6. 14. 32 6. 18. 41 6. 22. 50 6. 26. 59 6. 31. 8 6. 35. 16	23. 19. 30 23. 16. 38 23. 13. 21	217 717	12,8 12,7 12,6 12,5 12,3 12,1 11,9 11,6
30 Th.	3. 9. 3. 13	6. 39. 25	23. 9.39	3.11,5	11,4

		jun	I E	1768.	[63]
Days of the Month.	meter of	Time of Departing the Meridian,	Hourly Motion of the Sun.	Logarithm of the Sun's Diffance.	Place of the Moon's Node,
the	, "	1 11	1 11	The state of	100
7 13 19	15. 48, 7 15. 48, 1 15. 47, 5 15. 47, 1 15. 46, 9	1, 8, 6	2. 23, 5 2. 23, 3 2. 23, 2 2. 23, 0 2. 23, 0	0.006960	9. 14. 5 9. 13. 46 9. 13. 27 9. 13. 8 9. 12. 49

Eclipses of the SATELLITES of JUPITER.

I. Satelli Emersion			Satelli merfior		III. Satellite.			
Days h	"	Days	1	//	Days	100	1 11	The same
3 12*2 5 6.5 7 1.2 8 19.5 10 14.2 12 8*5 14 3.1 15 21.4 17 16.1 19 10*4 21 5.1 22 23.4 24 18. 26 12.3 28 7.	0. 21 8. 51 17. 17 15. 38 4. 4 2. 23 0. 48 9. 6 17. 27 15. 49 14. 10 12. 27 10. 52 17. 31 18. 49 19. 40 19. 40	2 6 19 13 17 20 24 27	23. 16 12*33 1.50 15. 7 4.24 17. 41 6.58 20. 15	. 43 . 34 . 32 . 32 . 30	3 3 10 10 17 17 25 25 1	15. 17. 19. 21. 23. 3. V. Sa	47- 42 54- 54 45- 41 51- 8 43- 34 48- 2 41- 22 44- 51 tellite	E I E I E I E

[64		the same of the same of	NE	1768.		
Days.		tude.	Geocen- tric Lon- gitude.	tric La- titude.	Declina- tion.	Passage over Merid.
-	3 0 /	-011	8 0 1	0 1	0]	N I
-	1000	A- 3100	RCU	45.74	fup. 6 3	N. P.
7	3. 4. 10	5. 14	2. 7. 53 2. 21. 4 3. 3. 46	1. 14	21. 57 N 24. 26 25. 14	0.17
19 25	5. 9. 29	6. 24	3. 15. 22	1.58	24. 32	1. 14
		V	ENU	S.	0.0	A 15
7 13	1. 2. 59	2.14	1, 21, 39 1, 28, 58 2, 6, 16	1. 1.	17. 2 N 18. 57 20. 36	22. 40 22. 45 22. 50
19		The second second	2. 13. 35		21.54	22. 56
2	A TOWN	the state of	MARS		☐ 2l	College at
7 13 19	10. 2. 28 10. 6. 12 10. 9. 58 10. 13. 43 10. 17. 30	1. 48	11, 18, 35 11, 22, 43 11, 26, 48 0, 0, 4, 4	2, 23	5. 5 3. 33 2. 4	18. 22
	100 76	ju	PITE	R.	TOTAL T	121
1 7 13 19 25	6, 22, 40 6, 23, 7 6, 23, 34	1. 17 1. 17 1. 16	6, 13, 6 6, 13, 1 6, 13, 2 6, 13, 10 6, 13, 24	1. 25 1. 23 1. 21	3. 52 S 3. 51 3. 53 3. 58 4. 4	
		S	ATUR	N.	d 284	7h 20'.
1	10 10 10	the Lines		Charles and the second		
1 7 13 19 25	3. 6. 38 3. 6. 52 3. 7. 5	0. 39 S 0. 38 0. 38 0. 37	3. 3. 56 3. 4. 40 3. 5. 26 3. 6. 13 3. 7. 0	o. 35 o. 35	22, 49 N 22, 48 22, 47 22, 46 22, 44	1. 37 1. 16 0. 55 0. 33 0. 11

	JUNE 1768 [65]								
Week. Days of the Month.		Moon's Lon gitude at Midnight.	titude at						
1 W. 2 Th. 3 F. 4 Sa. 5 Su.	9. 3. 57. 46 9. 16. 46. 45 9. 29. 48. 42	8, 27, 37, 49 9, 10, 20, 46 9, 23, 15, 59 10, 6, 24, 56 10, 19, 48, 15	0. 46. 28 0. 23. 31 N 1. 33. 35	1. 20. 20 S 0. 11. 41 0. 58. 46N 2. 7. 29 3. 10. 33					
6 M. 7 Tu. 8 W. 9 Th. 10 F.	11. 10. 22. 4 11. 24, 24. 12 0. 8, 40. 43	11. 3. 25. 55 11. 17. 21. 16 0. 1. 30. 46 0. 15, 53. 48 1. 0. 26. 57	4. 26. 11 4. 58. 45 5. 13. 37	4. 4. 7 4. 44. 31 5. 8. 32 5. 13. 47 4. 59. 8					
11 Sa. 12 Su. 13 M. 14 Tu. 15 W.	2. 21. 24. 51	1, 29, 43, 36	4. 1. 18 3. 2. 35 1. 52. 51	4. 25. 1 3. 33. 36 2. 28. 47 1. 15. 29N 0. 0. 57 S					
16 Th. 17 F. 18 Sa. 19 Su. 20 M.	3, 19, 21, 13 4, 2, 46, 46 4, 15, 49, 32 4, 28, 31, 24 5, 10, 55, 1	4. 9. 20. 55 4. 22. 12. 56 5. 4. 45. 16 5. 17. 1. 14	1. 50, 36 2. 54, 45 3. 48. 24 4. 30. 3	1. 15, 28 2. 23, 49 3. 22, 59 4. 10, 48 4. 46, 2					
21 Tu. 22 W. 23 Th, 24 F. 25 Sa.	5. 23. 4. 23 6. 5. 3. 56 6. 16. 58. 1 6. 28. 51. 21 7. 10. 48. 3	6. 11. 1. 22 6. 22. 54. 30 7. 4. 49. 0	5. 13. 51 5. 15. 25 5. 3. 31	5. 7. 58 5. 16. 19 5. 11. 8 4. 52. 36 4. 21. 13					
26 Su. 27 M. 28 Tu. 29 W. 30 Th.	7. 22, 51, 53 8. 5, 6, 2 8. 17, 32, 52 9. 0, 13, 57 9, 13, 10, 2	8. 23. 51. 35	3. 11. 57 2. 13. 8 1. 6. 35 S	3. 37. 47 2. 43. 39 1. 40. 38 0. 31. 23 S 0. 40. 56N					
HARLEY.	No.	Anna Marie	K	A. e accorded					

[66]			JŁ	NE	and the same		
Days of the Month.	Days of the Week.	D's Age.) 's Pafs- age over Merid.	y's Right Afcén, at Noon.	Afc. at)'s De- clination at Noon.	climation
3 4 5	W. Th. F. Sa. Su.	18 19 20 21 22	13. 11 14. 4 14. 56 15. 47 16. 36	260, 26 274, 20 288, 9 301, 39 314, 46	267. 23 281. 16 294. 56 303. 15 321. 12	22. 2 18. 41	24. 47 S 23. 16 20. 30 16. 38 11. 53
789	M: Tù. W. Th.	23 24 25 26 27	17, 24 18, 12 19, 1 19, 53 20, 47	327. 34 340. 12 352. 53 5. 53 19. 27	333. 54 346. 31 359. 20 12. 35 26. 31	3. 36 S 2. 21 N	6, 28 0, 38 S 5, 19 N 11, 5 16, 18
11 12 13 14 15	Sa. Su. M. Tu. V.	200 1 2	21. 45 22. 46 23. 47 6, 48	33. 47 48. 53 64. 37 80. 31 96. 5	56, 42		20. 36 23. 36 25. 0 24. 43 22. 52
16 17 18 19 20	Th. F. Sa. Sa. M.	10 10 10 10 17 10	1, 46 2, 38 3, 26 4, 11 4, 53	110, 51 124, 38 137, 24 149, 21 160, 41	117, 52 131, 8 143, 28 155, 5 166, 12	17. 47	19. 43 15. 58 10. 55 5. 53 0. 44 N
21 22 23 24 25	Tu. W. Th. F. Sa.	8 0 10 11 12	5. 34 6. 14 6. 56 7. 39 8. 24	171. 40 182. 33 193. 35 204. 57 216. 50	177. 7 185. 2 199. 12 210. 49 223. 1	6. 49 11. 32 15. 48	4. 21 S 9. 13 13. 44 17. 44 21. 3
26 27 28 29 30	Su. M. Tu. W. Th.	13 14 15 16 17	10. 4 10. 58 11. 51	229, 21 242, 32 256, 14 270, 15 284, 18	235. 52 249. 20 263. 13 277. 18 291. 15	24. 19 25. 6 24. 35	23, 30 24, 52 25, 0 23, 49 21, 21
			G.O.				

			UN	The Landon of the State of the	and the same of th		[67]
Days of the Month.	Days of the Week	Semid'. Noon.	Semidr. D at Mid- night.) at	Hor. Par.) at Midnight.	Proport Lo- gar at Noon	Proport, Lo- gar, atMidn
2 3 4	W. Th. Sa. Su.	15. 11 15. 19 15. 27 15. 35 15. 44	15. 15 15. 23 15. 31 15. 40 15. 48	55,44 56, 12 56, 42 57, 13 57, 44	55. 58 56. 27 56. 57 57. 28 58. 0	5091 5055 5017 4977 4938	5036 4998 4958
7 8 9	M. Tu. W. Th. F.	15. 53 16. 1 16. 9 16. 16 16. 22	15. 57 16. 5 16. 13 16. 19 16. 24	58. 16 58, 47 59. 17 59. 43 60. 3	59. 2 59. 39	4898 4860 4823 4792 4768	4842 4808 4778
12 3 13 1	Sa. Su. M. Tu. W.	16. 25 16. 25 16. 21 16. 14 16. 5	16. 25 16. 23 16. 18 16. 10	60, 14 60, 14 60, 1 59, 36 59, 0	60, 15 60, 9 59, 50 59, 19 58, 38	475 # 475 4 477 0 480 0 4844	4760 4783 4821
17 I 18 S	Th. F. Sa. Su. M.	15. 52 15. 39 15. 26 15. 14 15. 4	15. 46 15. 33 15. 20 15. 9 15. 0	58, 15 57, 27 56, 39 55, 55 55, 17	57. 51 57. 3 56. 16 55. 35 55. 2	4900 4960 5021 5077 5127	4990 5050 5103
22 23 24 1	Tu. W. Th. F. Sa.	14. 56 14. 52 14. 49 14. 50 14. 53	14. 53 14. 50 14. 49 14. 51 14. 55	54· 49 54· 3 ² 54· 2 ³ 54· 2 ⁵ 54· 3 ⁶	54· 39 54· 26 54· 23 54· 29 54· 45	5163 5186 5198 5195 5181	5194 5198 5190
27 28 29	Su. M. Tu. W. Th.	14. 58 15. 5 15. 13. 15. 22 15. 32	15. 1 15. 9 15. 18 15. 27 15. 36	54. 56 55. 21 55. 52 56. 25 56. 59	55. 8 55. 36 56. 9 56. 42 57. 15	5154 5122 5081 5038 4995	5101 5059 5017
	3					1	2

E	81	jati	NEVI	681	-			
11	Diffances of 1 's Center from Stars, and from @ eart of her.							
Da	Stars	Noon.	3 Hours.	6 Hours.	9 Hours.			
ys.	Names.	0 1 11	0-1-11	0 1 1	0 1 11			
	26	89. 36. 31	88. 5. 14	Stall Control	85. 2, 10			
2	: Pegafi.	77. 21. 38	75. 49. 2	74. 16. 19	72. 43. 27 60. 16. 41			
3 4	a mobile	52. 27. 33	50. 53. 41		47. 46. 12			
5 5 6	THE WELL	81. 1. 22	79. 21. 3	77. 40. 31 64. 8. 48	75. 59. 46			
	a Arietis.	67. 32. 55 53. 51. 35	65. 50. 57 52. 8. 1	64. 8. 48 50. 24. 15	62, 26, 26 48, 40, 18			
7 5	NA TO 18	4.00 40 8	120, 31, 19	118. 57- 39	117. 23. 45			
6 7	200	96. 43. 11		93. 28. 56	91. 51. 29			
8	The Sun.	83. 412 70. 25. 31						
10	2 24 6	56. 58. 12	55, 16, 35 41, 40, 1	53. 34. 52	51. 53. 1			
16	11 W 36	37. 16. 35	35. 34. 59	33. 53. 48				
17	Regulus.	23. 56. 33	22, 18, 50	20, 41, 45	19. 5. 21			
18	1 2 2 2 2 2 2 2	64. 43. 52 52. 3. 4	63: 7.35					
20	CV 1 1995	39. 42. 30		36. 40. 7	35. 9. 18			
22		27. 38. 51 15. 50. 44		24. 40. 15				
22	Antares.	61. 13. 56						
24	-	37-33- 5	36. 4. 9	34 35. 10	33. 6. 7			
25	2 Aquilæ.	81. 38. 44 71. 4. 31	69. 45. 17		77. 40. 56			
27	The real Party of	84. 39. 40		81. 51. 35	80. 27. 22			
28	haut.	73. 24. 32	71.59.43	70. 34. 51				
29	z Pegafi.	80. 59. 1	79. 25. 35	77- 51- 59	76. 18. 12			
100		68. 26. 35	06. 51. 46	65. 16. 48	63. 41. 43			

	J U N E 1768, [69]									
	Diffances of) 's Center from Stars, and from @ east of her.									
Days.	Stars	12. Hours.	15 Hours.	18 Hours.	21 Hours.					
30	Names.	0 / //	0 1 11	0 1-11	Party 11 .					
1	4	83. 30. 23	81. 58. 26	80. 26. 19	78. 54. 4					
3	2 Pegafi.	58, 42. 57	69. 37. 21	68. 4. 9						
14	40.00	46. 12. 37	44. 39. 11	43- 5-57	41. 32. 56					
5	1	74. 18. 49	72. 37. 39	70. 56. 16	69: 14: 42					
6	a Arietis.	60. 43. 52 46. 56. 8	59. 1. 6	57. 18. 8	55.34.57					
04	AE	19	2 - 34 /	V - 4 - 3	HAT ALL					
5		115. 49. 38	114. 15. 17	99. 56. 28	98. 19. 56					
7	The Sun.	90. 13. 49	88. 35. 56	86. 57. 51	85. 19. 32					
8	The Dun.	77. 4.53 63.43. 7		73. 45. 35	72. 5.39 58.39.39					
9	ATA = In	50, 11, 4	48. 29. 1	46. 46. 53	45. 4.40					
15	1 1012	44. 6. 57	42. 23. 46	40, 40, 50	38. 58. 35					
16	Regulus.	30. 32. 47	28, 52, 58	27. 13. 39	25. 34. 50					
17	2000	17. 29. 44	15. 54. 59	14. 21. 12	12. 48. 37					
18	0 0 0 0		56. 45. 51							
19	Spica 吸	33. 38. 44	44. 18. 3		41. 14. 5					
21	OF THE REAL PROPERTY.	21. 42. 36		18. 46. 3	17. 18. 13					
22		55. 18. 9	53. 49. 22	52. 20. 36	50. 51. 53					
	Antares,	43. 28. 23 31. 37. I		40. 30. 49						
24	0 10 1	91 27		10000	100					
24	z Aquilæ.	86. 55. 16	85. 36. 13 75. 2. 20							
26	o riquita.	65. 48. 1								
27	Fomal-	70. 3. 1	77. 38. 33	76. 13. 58	74. 49. 17					
	haut.	67. 44. 59	66. 20. 5	64. 55. 13	63. 30. 25					
29	a Pegafi.	74- 44- 14	73. 10. 5	71. 35. 45	70. 1. 15					
30	- regain.	62. 6. 31	60. 31. 15	58. 55. 54	57. 20. 28					

[70]	Jau	STATE OF THE PARTY OF	768.	
Distances	of D's Cent	er from Stars	, and from O	well of her.
Stars Names.	Noon.	3 Hours.	6 Hours,	9 Hours.
	0 1 11	0 1 11	0 / 1/	0 1 11
I Spica 项	60. 41. 8 73. 19. 34	62. 15. 16	76. 31. 9	78. 7. 14
3. 4 Antares.	40, 29, 56 53, 34, 24 66, 52, 14 80, 23, 52		43. 44. 47 56. 52, 38 70. 13, 50	45. 22. 31 58. 32. 4 71. 541 57
6 Capri- corni.	25. 43. 20 39. 25. 2 53. 22. 46	41. 8. 56	29. 7. 10 42. 53. 5	30, 49, 29 44, 37, 28
8 9 z Aquilæ.	58. 0. 59 70. 10. 1 82. 48. 52	59. 29. 51. 71. 43. 37	60. 59. 27 73. 17. 39	
10 11 12 Pegafi.	35. 3. 8 48, 30. 35 62. 25. 52 76. 29. 1	50, 14. 0	51. 57: 47	53.41.54
13 19 20 The Sun.	71. 27. 17		62. 54. 48	52. 43. 33 64. 20. 55
21 22 23 24		84. 0. 29	85. 23. 17 96. 21. 7	97. 42. 57 108. 36. H
22 Regulus.	38. 49. 12 50. 36. 29 62. 24. 20	52. 4.51 63.53. 3	41, 46, 11 53, 33, 14 65, 21, 50	43. 14. 38 55. 1. 30 66. 50. 42
25 26 27 Spica ng 28	20. 18. 47 32. 15. 32 44. 26. 50 56. 53. 11	33, 46, 9 45, 59, 17 58, 27, 35	35. 17. 0 47. 31. 59 60. 2. 13	36. 48. 4 49. 4. 55 61. 37. 7
30 Antares.	36, 52, 36			

L		JU	NEI	768.	[71]
E	of tances of)'s Center	from Stars,	and from O	west of her.
Days.	Stars Names.	12 Hours.	15 Hours.	18 Hours.	21 Hours.
1 2	Spica In	66. 58. 51 79. 43. 32	68. 33. 45		71. 44. 5
2 13 4 5	Antares.	34. 2. 42 47. 0. 29. 60. 11. 42 73. 36. 18	35. 39. 12 48. 38. 38 61. 51. 31 75. 17. 52	37. 15: 55 50. 17. 4 63. 31. 33 76. 59. 39	
7	Capri- corni.	32. 32. 4 46. 22. 5	34. 14. 55 48. 6. 56	35. 58. 2 49. 52. 0	37. 41. 24 51. 37. 17
200	Aquilæ.	64. 0. 38 76. 26. 51	65. 32. 9 78. 1. 57	67. 4. 15 79. 37. 21	81. 13. 0
12	∠Pegafi.	41. 41. 33 55. 26. 18 69. 27. 23	43. 22. 58 57. 10. 54 71. 12. 51	45. 4. 59 58. 55. 43 72. 58. 18	60, 40, 43
17 18 19 20 21 22 23 24	The Sun.		67. 12. 16 78. 27. 43 89. 30. 49 100. 26. 24	68. 37. 31 79. 51. 11	58. 34. 43 70. 2. 32 81. 14. 27 92. 15. 13 103. 9. 42
21	Regulus.	32. 54. 33 44. 43. 2 56. 30. 5 68. 19. 41	34. 23. 19 46. 11. 24 57. 58. 34	47. 39. 46	37. 20. 38 49. 8. 8 60. 55. 41
24. 29. 26. 27. 28.	Spica ng	14. 27. 7 26. 15. 19 38. 19. 22 50. 38. 5 63. 12. 16 76. 2. 27	15. 54. 29 27. 45. 2 39. 50. 53 52. 11. 30 64. 47. 40	17. 22. 14 29. 14. 58 41. 22. 38 53. 45. 9 66. 23. 18	18. 50. 21 30. 45. 8 42. 54. 37 55. 19. 3 67. 59. 12
25	Antares.	30, 21, 27 43, 27, 42	31. 53. 51 45. 7. 4	33. 36. 31 46. 46. 39	35. 14. 26 48. 26. 28

JUNE 1768. [72] Configurations of the SATELLITES of JUPITER at 10 o'th' Clock in the Evening. 0 .. 0 .. 311030 0 O .1 0 6 20 0 0 8 0 9 0 0 ... 10 40 11 1.0 0 0 O 2. 141 0 0 2 16 0 O 1.3. 181 1.0 0 19 1.0 O 2. .1 21 3.0 0 22 2.0 0

0 0

" O

0 O .I

0

0 0

1.3.

402

24

26 1 0

28 3.0

29 2.0

	-	JULY	1768. [73]
Days of the Month.	Days of th Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H.
-	F.		Last Quarter— 6. 16. 57 New Moon — 13. 13. 47 First Quarter —21. 9. 5
3	Sa. Su.	Vifitation of V. Mary.	Full Moon — 29. 2.35
4.	M. Tu.	Tranfl, of S. Martin, Cambridge Commenc.	Other Phenomena,
6 7 8	W. Th.		D. 1. \$ \$ 55 diff. Lat. 53'.
9	F. Sa. Su.	Cambridge Term ends. 6th Sunday after Trinity.	2. Ω η π diff. Lat. 54'. 3. ℂ θ ≈ 11 h 28'. 4. Ω μ Π diff. Lat. 53'.
11	M.	Oxford Act.	7. (n × 6h 39'. 9. (n Pleiadum 14h 29'.
12 13 14	Tu. W. Th.	111 200	11. (3 post (8 9 44'. 13. ⊙ eclipsed invisible, d at 13 44', ('s Lat.
15	F.	Swithin. Oxford Term ends.	53' fouth. (of II 1h 52'.
17	Su. M.	7th Sunday after Trinity.	14. Q & Π diff. Lat. 41', 15. C & Ω 13h 48'. C • Ω 18h 40'.
19	Tu. W.	Margaret.	16. 1 6 1 diff. Lat. 31'. (π Ω 6h 2'. 21. O enters St. at 22h 54'.
21	Th. F.	Q. of Denmark born	24. Stationary.
23 24 25	Sa. Su. M.	[1751. Magdalen. 8th Sunday after Trinity. St. James.	8h 12'. 25. ¶ θ Ophiuchi 9h 37'. 27. ¶ ο ∓ 5h 47'.
26	Tu.	St. Anne.	30. Q 0 m 18h 20'. Q 0 \(\Omega\) diff. Lat. 50'. 31. \(\Omega\) \(\Omega\) diff. Lat. 57'.
27 28 29	Th.		31. 4 0 5 till. Lat. 57.
30	Sa.	9th Sunday after Trinity.	

[74]		J-U	LY	768.		00
Days of Month	Days of Week	Sun's Longitude.		Sun's Declin.	Equat. of Time Add.	Diff.
the	the	8 0 / //	h / //	0 1 11	1 "	11
1 2 3 4 5	F. Sa. Su. M. Tu.	3. 10. 0. 24 3. 10. 57. 34 3. 11. 54. 45 3. 12. 51. 56 3. 13. 49. 7	6. 47. 41 6. 51. 49 6. 55. 56	23. 5. 32 23. I. 1 22. 56. 7 22. 50. 49 22. 45. 7	3.22,9 3.34,2 3.45,1 3.55,7 4. 6,1	11,3 10,9 10,6 10,4
6 7 8 9	W. Th. F. Sa. Su.	3. 14. 46. 19 3. 15. 43. 30 3. 16. 40. 44 3. 17. 37. 58 3. 18. 35. 12	7. 8. 15 7. 12. 22 7. 16. 27	22. 39. 2 22. 32. 32 22. 25. 39 22. 18. 22 22. 10. 43	4.16,1 4.25,7 4.35,1 4.44,1 4.52,6	9,6 9,4 9,0 8,5 8,2
11 12 13 14 15	M. Tu, W. Th. F.	3, 19, 32, 27 3, 20, 29, 42 3, 21, 26, 58 3, 22, 24, 14 3, 23, 21, 31	7. 28. 40 7. 32. 45 7. 36. 48	22. 2.41 21.54.15 21.45.28 21.36.19 21.26.46	5. 0,8 5. 8,5 5.15,7 5.22,4 5.28,7	7,7 7,2 6,7 6,3
16 17 18 19 20	Sa. Su. M. Tu. W.	3. 24. 18. 49 3. 25. 16. 6 3. 26. 13. 24 3. 27. 10. 42 3. 28. 8. c	7. 48. 55 7. 52. 57 7. 56. 57	21. 16. 52 21. 6. 37 20. 55. 59 20. 45. 1 20. 33. 42	5.39,8 5.44,5 5.48,7	5,9 5,2 4,7 4,2 3,5
21 22 23 24 25	Th. F. Sa. Su. M.	3. 29. 5. 19 4. 0. 2. 38 4. 0. 59. 57 4. 1. 57. 17 4. 2. 54. 37	8. 8. 56 8. 12. 54 8. 16. 52	20. 10. 1 19. 57. 41 19. 45. 0	5.57.7	3,0 2,5 1,7 1,3 0,6
25 27 28 29 30	Tu. W. Th. F. Sa.	4. 3. 51. 58 4. 4. 49. 19 4. 5. 46. 39 4. 6. 44. 4 4. 7. 41. 27	8. 28. 42 8. 32. 37 8. 36. 32	19. 18. 40 19. 5. 1 18. 51. 5 18. 36. 48 18. 22. 13	6. 0,7 5.59.5 5.57.7	0,6 1,2 1,8 2,5
31	Su.	4. 8, 38, 52	8, 44, 20	18. 7.21	5.52,3	3,7

	JULY 1768.									
Days of the Month.	meter of	Time of D° passing the Meridian.	Hourly Motion of the Sun.	Logarithm of the Sun's Distance.	Place of the Moon's Node.					
0	1 11	1 11	1 11		1 0 1					
7 13 19	15. 46, 9 15. 47, 0 15. 47, 2 15. 47, 7 15. 48, 3	1. 8, 5 1. 8, 2 1. 7, 9 1. 7, 5 1. 7, 0	2. 23, 0 2. 23, 0 2. 23, 1 2. 23, 2 2. 23, 4	0,006863						

Eclipses of the SATELLITES of J U P I T E R.

1000	Satellite Emerfions.	1	Satellite. Imerions.	III. Satellite.		
Days 1 3 5 7 8 10 12 14 15 17 19 21 23 24 26 28 30 31	20. 2. 35 14. 30. 59 8*59. 24 3. 27. 49 21. 56. 13 16. 24. 40 10*53. 13 5. 21. 41 23. 50. 13 18. 18. 47 12. 47. 23 7. 15. 56 1. 44. 37 20. 13. 12 14. 41. 54 9*10. 36 3. 39. 24 22. 8. 7	Days 1 4 8 12 15 19 22 26 29	9*33. 5 22. 50. 27 12. 7. 54 1. 25. 31 14. 43. 14 4. 1. 8 17. 19. 11 6. 37. 26 19. 55. 46		5. 39. 19 I 7. 41. 51 E 9*37. 38 I 11. 39. 10 E 13. 36. 14 I 15. 36. 48 E 17. 35. 17 I 19. 34. 55 E 21. 34. 41 I 23. 33. 24 E V. Satellite. conjunctions. 10. 49. 41 4. 46. 38	

[76	[]				U	L	Y	176	8.	-			18
Days.	tri		on-			tric	Cen- Lon ude.	tri	c La- ude.	Dec	lina- n.	Patta ove Mer	er
		0	1	0			0 /	0	1	0	1	h	1
2	M E R C U R Y. greatest Elong. 10 ^d .												
1 7 13 19	8.	25. 0. 17. 3.	33 36	o. 1. 3.	28 N 16 48 S 39	4.	4.3° 12. 17.5 21.3° 22.4	3 O. 1 I. 7 2.	8 2 S 2 I	17. 14. 12. 10.	31	I. I. I. I. I.	50 47 36
					200		NU	100		7	7		1
.1 7 13 19 25	3.	11. 21. 0. 10.	13 54 37	0. 0. 1.	11 S 24 N 57 29 59	3.	28, 1 5. 3 12. 5 20. 2 27. 4	6 0.	10 N 24 37	23. 23. 23. 22. 21.	15 32	23. 23. 23. 23. 23.	17 25 31
				-			AR					-	
13	10. 10. 11.	21. 25. 28. 2. 6.	6 54 43	I.	51 S 50 49 47 45	0.	8. 3 12. 2 16. 19. 3 22. 5	2.	48 S 53. 59 2	3.	50 N 14 33 50	17. 17. 17. 17.	40 29 18
	1		-			P	1 T	ER			1		
13	6.	24. 24. 25. 25. 26.	57 24	I. I.	16 N 16 16 16	6.	13. 4 14. 1 14. 4 15. 1 16.	1 1.	18 N 17 16 14 12	4.	14 S 26 39 54 12	6. 5. 5. 4.	46
					S	A T	UI						-
1 7 13 10 25	3333	7. 7.8	32 46 59 13 26	0.	36 S 36 35 34 34	3.	7·4 8.3 9.2 10.	000	31		40 37 33	23. 23. 23. 22.	4 43

-	-	1	1	JU	L	Y	2	17	68				-	[7]	7]
Days of Montl	Days of Week	Moo gi N	on's tude oen	Lon-	Mi	oon' gitud Mid	s La le a nigl	t it.	M	oon titu No	de :	a- at I	Me atit /lide	on's ude uigh	at t.
the	the	S	0	1 11	S	0	1	"	0	1	"	0	1	"	
3 4	F. Sa. Su. M. Tu.	10. 10. 2	9. 4	1. 14 6. 43 5. 44 6. 22 6. 32	10.	16.	34.	41 44 15	3.	26. 28.	28 4+ 44	3 4	. 55	. 21 - 43 - 52 - 54	
7 8 9	W. Th. F. Sa. Su.	0. 1 1. 1. 1	3. 5	4. 3 ² 7. 4 ⁹ 4. ² 0. 20 3. 46	0. I. I.	12. 26. 11. 25. 9.	45.	46 22 33	5-4-	14:	31 2 22	5 + 3	38	. 2 . 21 . 29 . 34	
12 13 14	M. Tu. W. Th. F.	3. 1	0. 2	1. 3 8. 51 4. 9 4. 15 7. 28	3.	7. 21. 4.	23. 1. 23.	18	1.	5. 10. 23.	36 l 10 l 56	Noso	47	· 44 · 44 · 38 · 48 · 5	C.Z
17 18 19	Sa. Su. M. Tu. W.	5. 1	6. 3 8. 5 1.	3. 1 1. 17 3. 50 3. 19 3. 7	5.	12. 25. 7.	44.	26	4.4.5.	16. 49. 9.	26 57 42	5 5	34	· 43 · 54 · 33 · 23 · 27	
22 23 24	Th. F. Sa. Su. M.	7. 1 7. 1 8.	6. 5	7. 15 0. 19 7. 4 2. 2 9. 33	7. 7. 8.	12. 24. 6.	47.	16	4.	47. 13. 28.	6 44 52	4 3 3	52	8 - 55 - 41 - 30 - 51	
27 28 29	Tu. W. Th. F. Sa.	9. 2	8. 3	3, 10 5, 41 8, 25 1, 20 2, 41	9.	15.	9.	29	0.	52.	24	S O	28	. 50	N
31	Su.	ti.	3. 1	9. 10	H.	10.	25.	39	1.	4	1	14	. 26	. 25	

[78]			J	ULY	1768.	-	
Days of the Month.	Days of the Week.	D's Age.	age over	y's Right Afcen. at Noon.	Afc. at Midn.	n's Declination at Noon.	p's De clination at Midn.
1 2 3 4 5	F. Sa. Su. M. Tu.	18 19 20 21 22	13. 37 14. 27 15. 16 16. 5 16. 53	298. 7 311. 33 324. 36 337. 22 350. 3	3°4. 54 318. 7 331. ° 343. 42 356. 25	19. 39 S 15. 28 10. 26 4 50 S 1. 4 N	17. 41 S 13. 3 7. 41 1. 55 S 4. 2 N
6 7 8 9	W. Th. F. Sa. Su.	23 24 25 26 27	17: 42 18: 35 19: 29 20: 29 21: 29	2, 52 16. 6 29. 54 44. 25 59. 35	9. 25 22. 55 37. 4 51. 56 67. 19	6. 58 12. 32 17. 27 21. 23 24. 0	9. 48 15. 6 19. 34 22. 52 24. 44
11 12 13 14 15	M. Tu. W. Th. F.	28 29 1 2 3	22. 28 23. 27 d 0. 22 1. 12	75. 6 90. 32 105. 26 119. 32 132. 42	82. 51 98. 4 112. 36 126. 14 138. 58	25. 5 24. 34 22. 32 19. 16 15. 4	25. I 23. 44 21. 2 17. 16
16 17 18 19 20	Sa. Su. M. Tu. W.	4 5 6 7 8	3. 25	145. 2 156. 42 167. 54 178. 54 189. 56	150. 56 162. 20 173. 22 184. 24 195. 31	10, 16 5, 9N 0, 3S 5, 9	7. 44 2. 33 N 2. 37 S 7. 37 12. 17
21 22 23 24 25	Th. F. Sa. Su. M.	91011	6. 14 7. 1 7. 51	201. 10 212. 51 225. 4 237. 56 251. 24	206. 57 218. 54 231. 24 244. 37 258. 18	14. 27 18. 20 21. 30 23. 46 24. 57	16. 28 20. I 22. 45 24. 31 25. 5
26 27 28 29 30	Tu W. Th. F. Sa.	14 15 16 17 18	10. 32 11. 25 12. 17	265. 17 279. 23 293. 25 307. 12 320. 38	272. 19 286. 25 300, 21 313. 57 327. 14	24. 54 23. 32 20. 51 16. 58 12. 5	24. 23 22. 21 19. 2 14. 38 9. 21
31	Su.	19	13. 59	333.46	340. 15	6.30	3. 33

		JUL			-	[79]
Week. Days of the Month.) at Noon.	Semid'. D at Mid- night.	D at	Hor. Par.) at Midnight.	Proport, Logar, at Noon.	Proport. Logar, atMidn,
F. Sa. Su. 4 M. Tu,	15. 40 15. 48 15. 55 16. 1 16. 6	15. 45 15. 52 15. 58 16. 4 16. 8	57. 31 58. 0 58. 26 58. 47 59. 5	57. 46 58. 14 58. 37 58. 56 59. 12	4918 4886 4860	4936 4901 4872 4849 4830
6 W. 7 Th. 8 F. 9 Sa. 10 Su.	16, 10 16, 12 16, 13 15, 13 16, 11	16, 11 16, 13 16, 13 16, 12 16, 9	59. 18 59. 27 59. 31 59. 30 59. 23	59. 22 59. 30 59. 31 59. 27 59. 15	4811 4806 4808	4817 4808 4806 4811 4826
11 M. 12 Tu. 13 W. 14 Th. 15 F.	15.52	16. 4 15. 57 15. 48 15. 37 15. 27	59. 6 58. 45 58. 15 57. 40 57. 1	58. 56 58. 31 57. 58. 57. 20 56. 41	4863 4900 4943	4849 4880 4921 4968 5018
16 Sa. 17 Su. 18 M. 19 Tu. 20 W.		15, 16 15, 7 14, 58 14, 53 14, 50	56. 21 55. 44 55. 12 54. 47 54. 31	56. 2 55. 27 54. 58 54. 37 54. 26	5091 5133 5166	5068 5114 5152 5179 5194
21 Th. 22 F. 23 Sa. 24 Su. 25 M.	14, 50 14, 51 14, 55 15, 1	14. 50 14. 52 14. 58 15. 5 15. 15	54. 25 54. 29 54. 43 55. 8 55. 40	54. 26 54. 35 54. 55 55. 23 55. 59	5190 5171 5138	5194 5182 5155 5119 5072
26- Tu. 27 W. 28 Th 29 F. 30 Sa.	15. 32	15. 26 15. 38 15. 49 15. 59 16. 7	56, 18 57. 0 57. 42 58. <u>22</u> 58. 55	56. 38 57. 22 58. 2 58. 39 59. 8	4994 4941 4891	5022 4966 4916 4870 4834
31 Su.	16. 10	16. 13	59.20	59. 29	1820	4009

[8]	Contract Contract of	the name of the latest	L Y 1	AND REAL PROPERTY.	-
層	DOM: NO COMMISSION AND ADDRESS.	of D's Cente	r from Stars	, and from (east of her.
)ays	Stars	Noon.	3 Hours.	6 Hours.	9 Hours.
S	Names.	0 1 11	0 1 11	0 1 11	0 1 11
1	257 13	55- 44- 58	54. 9. 25	52. 33. 56	50. 58. 30
2	a Pegafi.	43. 2.51	41. 28. 16		
3	A POLICE OF	30. 39. 50			more ?
13	1000	70. 41. 49	68. 58. 50	67. 16. 1	65. 32. 56
4	a Arietis.	56. 55. 37	55. 11. 52		51.44 6
5	The state of	43. 3. 4	The same		-
5	Aldeba-		74. 9.23	72. 25. 18	70.41. 8
6	ran.	61. 59. 28	60. 15. 2	58. 30. 36	56. 46. 9
1_7		48. 4. 6			120
5				109, 10, 53	
O	100	99. 19. 25 86. 6. 41	97. 40. 34 84. 27. 18	96. 1. 39 82, 47. 53	94. 22. 40 81. 8. 25
8	The Sun.	72. 50. 37	71. 10. 58	69, 31, 19	
9	102 000	59. 33. 19	57-53-41	56. 14. 6	54. 34. 31
10		46. 17. 14	44. 37. 57	42. 58. 46	41. 19. 40
15	Total Car	69. 35. 55	67. 57. 58	66, 20, 19	64. 42. 58
16	中有 明月	56. 40. 46	55. 5. 14	53. 30. 0	51.55. 3
	Spica mg	44. 4. 49		40, 58, 41	
18	100	31. 46. 56	30. 15. 53	28. 45. 6	
19	The same	19. 46. 11	18. 17. 27	16. 49. 6	The second secon
20	Antonio	53. 16. 58		50. 18. 56	48. 50. 1
	Antares,	41. 26. 10	39. 57. 28	38. 28. 46	37. 0. 3
22			10 n to 1	0	0
22	z Aquilæ.	85. 7. 48 74. 37. 36	73. 18. 51	82. 30. 16 72. 0. 8	70. 41. 28
24	THE REAL PROPERTY.	64. 9. 9	62. 50. 59		60. 15. 9
	EL SOURCE DE LA COMPANION DE L	77. 22. 30	75. 58. 16	Married Townson	
25	Fomal-	66, 5.57	64. 41. 3		61, 51, 20
27	haut.	54. 48. 42	4.4.	-3.	The County III
27	-	72. 52. 16	71, 17, 22	69. 42. 14	68. 6.53
28	a Pegafi.	60. 6.54	58. 30. 22	56. 53. 43	55. 16. 57
29	a regan.	47. 12, 21	45. 35. 30	43. 58. 47	42. 22. 15
30		34.24.58		The state of	1000
130		74. 54. 32			69. 39. 46
31 A1	1000	60. 51. 54		57. 19. 52	55. 33. 42
AI	-	45. 41. 43	-		

1		7.77	1 37	70	Fo. 1
		A SHARE THE PARTY OF THE PARTY	LYI	The state of the s	[81]
腰	Distances	of D'sCente	r from Stars,	and from G	east of her.
Days	Stars Names.	12 Hours.	15 Hours.		
		0 / 1/	0 / //	0 / //	0 1 11
1 2	α Pegafi.	49. 23. 9 36. 46. 43	47. 47. 52 35. 13. 52	33. 41. 42	44- 37- 41 32. 10. 18
3 4	a Arietis.	63. 49. 42 50. 0. 4	62. 6.21 48. 15. 55	60, 22, 53 46, 31, 42	58. 39. 18 44. 47. 25
5	Aldeba- ran.	68. 56. 55 55. 1. 42	67. 12. 37 53. 17. 15	65. 28. 17 51. 32. 50	63. 43. 53 49. 48. 27
4 56 78 910	The Sun.	118. 58. 57 105. 54. 6 92. 43. 36 79. 28. 54 66. 11. 58 52. 54. 59 39. 40. 39	77. 49. 22	89, 25, 16 76, 9, 49	87. 46. 0 74. 30. 14 61. 12. 58
14 15 16 17 18	Spica my	76. 10. 43 63. 5. 55 50. 20. 25 37. 53. 39 25. 44. 19 13. 53. 34	74. 31. 34 61. 29. 11 48. 46. 5 36. 21. 34 24. 14. 19	59. 52. 44 47. 12. 2 34. 49. 45	71. 14. 10 58. 16. 36 45. 38. 17 33. 18. 13 21. 15. 15
19 20 21	Antares.	59. 14. 3 47. 21. 10 35. 31. 20	57. 44. 38 45. 52. 22 34. 2. 25	56, 15, 19 44, 23, 36 32, 33, 48	54. 46. 6 42. 54. 52 31. 4. 59
22 23 24	z Aquilæ.	79. 52. 42	78. 33. 54 68. 4. 17		75. 56. 21 65. 27. 26
	Fomal- haut.	82. 57. 51 71. 44. 54 60. 26. 33	81. 34. 16 70. 20. 15 59. 1. 50	68. 55. 32 57. 37. 16	78. 46. 36 67. 30. 46 56. 12. 54
27 28 29		66. 31. 17 53. 40. 5 40. 45. 56	64. 55. 28 52. 3. 8 39. 9. 57	63. 19. 27 50. 26. 12 37. 34. 24	61. 43. 16 48. 49. 17 35. 59. 22
30	2 Arietis.	67. 54. 28 53. 47. 26	66. 9. 2 52. I. 5	64. 23. 27 50. 14. 40	62. 37. 45 48. 28. 13

[82] JULY 1768.							
Distances of D's Center from Stars, and from @west of her.							
Stars Names.	Noon.	3 Hours.		9 Hours.			
1	50. 6. 30	51.46.46	53. 27. 14	55. 7.53			
2 Antares.	63. 34. 11	65. 16. 4	68, 58, 8	68. 40. 23			
3 Capri- corni.	22. 34. 29 36. 20. 4 50. 15. 54	24. 16. 54 38. 4. 2	25. 59. 35 39. 48. 9	27. 42. 30 41. 32. 25			
δ α Aquilæ.			70. 23. 2	59. 47. 40 71. 55. 26 84. 23. 52			
8 9 2 Pegafi.	44. 52. 32 58. 21. 25 52. 1. 12 85. 41. 40	46. 32. 33 60. 3. 32 73. 43. 54		49. 53. 40 63. 28. 9			
11 2 Arietis.	42. 29. 47	44. 14. 31	45. 59. 10	47- 43- 43			
17 18 19 20 21 The Sun. 22 23 24		76, 20, 5° 87, 14, 33 98, 8, 8	55. 38. 22 66. 45. 8 77. 42- 49 88. 36. 8 99. 30. 1	68. 7. 46			
22 23 24 Spica 収 25 26	16. 25. 2 28. 12. 2 40. 13. 3	17. 52. 4	19. 20. 3. 31. 11. 20 43. 16.	32. 41. 14			
26 27 28 Antares. 29 30	02 00	7 33.55.4 7 47.13.3 7 60.51.2	3 35. 34. 1 9 48. 54. 5 1 62. 34. 5	9 37. 13. 15 50. 36. 19 64. 18. 34			
30 β Capri- 31 corni.	18, 24, 32, 23, 5 46, 36, 4	8 34. 10.	6 21. 52. 2 4 35. 56. 2	23. 37. 2 37. 42. 48			

JULY 1768. [83]							
Diffunces of D's Center from Stars, and from @ west or ner.							
Day	Stars	12 Hours,	15 Hours.	18 Hours.	21 Hours.		
.S.	Names.	0 / 1/	0 1 11	0 / 11	0111		
1	Antares.	56. 48. 44	58. 29. 48	60. 11. 3	61. 52. 31		
2	Amares.	70. 22. 49	58. 29. 48 72. 5. 26	73. 48. 12	75. 31. 8		
3	3 Capricorni.	29. 25. 41	31. 9. 1		34- 36- 13		
4		43. 16. 49	45. 1. 24	46. 46. 6	48. 30. 56		
5		61. 16. 56	62. 46. 47	64. 17. 9	65. 48. 6		
6	z Aquilæ.	73. 28. 10 85. 58. 11	75. 1. 11	76. 34- 27	78. 7.58		
1	ALCO D	-	-	-	-		
700	103	38. 17. 30			43. 12. 57		
9	2 Pegafi.	51. 34. 47 65. 10. 38	53. 16. 7 66. 53. 12	54. 57. 39 68. 35. 50	56. 39. 26 70. 18. 29		
10		78. 51. 51	80. 34. 25	82. 16. 54	83. 59. 19		
11	a Arietis.	49. 28. 11	51. 12. 29	52. 56. 39	54. 40. 41		
17	4/- 1	47. 9.55	48. 35. 13	50. 0. 18	51, 25. 8		
18		58. 26. 10	59. 49. 45	61. 13. 10	62. 36. 24		
19	The Sun.	69. 30. 15 80. 26. 21	W. W.	72. 14. 51 83. 9. 42	73. 36. 59		
20	THE DUIL	91. 19. 23	92. 41. 1	94. 2. 43	95. 24. 47		
22		102. 14. 20	103. 36. 35	104. 58. 58	106. 21. 28		
23	-	113. 16. 15	114. 39. 42	116. 3.21	117. 27. 12		
21		10. 40. 17	12. 5.41	13. 31. 43	14. 58. 17		
22	Spica m	34. 11. 16	23. 45. 33 35. 41. 29	25. 14. 20 37. 11. 57	26. 43. 22 38. 42. 37		
23	opica ng	46. 19. 39	47. 51. 49	49. 24. 14	50. 56. 56		
25	-	58. 44. 38	60. 19. 3	61. 53. 46	63. 28. 48		
26	10 10	25. 47. 44	27. 24. 40	29. 1.55	30. 39. 31		
27	Antares.	38. 52. 31	40, 32. 6	42. 12. 0	43. 52. 14		
28		52, 18. 6 66. 2, 34	67. 46. 47		57. 25. 11 71. 15. 55		
	10				-		
30	BCapricorni.	25. 21. 54 30. 20. 26		28. 52. 26			
-	-		1010	-	-		

[8	4] .80J2U'L YU1768. ∧
Co	nligurations of the SATELLITES of JUPITER
11	at 9 o' th' Clock in the Evening.
-	Chin - Manual China San San San San San San San San San S
I	4 1 10 10 V O 1.5. 2.0
2	1 401 min (7 M3. O (min) W
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4	13 40
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9	102 manufaction 1. 1000 00 10 34 72 5
8	2 0 1 3.
819	3.0
10	O 1 d 2
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13	2 0 4 3
14	ASE application of the second
15	O2. 3.
17	4.
10	
19	
	·4 ·3 ·2 · 0 ·3 · 1.0 ·4 ·2 · 0 ·3
21	·4 1. ① ·2 ·3
22	4.0 0 2. 4 3.
23	2. 1, 03. 14
	2.0 3. ① 1. 1 4 1
25	2,
26	3 . 01.
Marian.	1.0
1000	4,4
29	0 261 43.
30	2. 1. 0 43.
31	3.4. 20 .1

		AUGUST	[85] [85]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H. / Last Quarter — 4. 21. 17 New Moon — 12. 1. 15
1 2 3 4 5	M. Tu. W. Th. F.	Lammas-Day.	First Quarter — 20. 2. 33 Full Moon — 27. 12. 1 Other Phenomena. D. 3. (n × 12h 3*.
6 7 8 9 10	Sa. Su. M. Tu. W.	10th Sunday after Trinity.	5. (n Pleiadum 20h 10'.
11 12 13 14 15	Th. F. Sa. Su. M.	Prs. of Brunswick born. Pr. of Wales born 1762. 11th Sunday ofter Trinity.	17. 9 α St diff. Lat. 54'. 20. (f σ M 15h 44'. 21. (f θ Ophiuchi 18h 28'. 22. Θ enters M at 5h 11'. 23. (f θ I 15h 14'.
16 17 18 19 20	Tu. W. Th. F. Sa.	Prince Frederick born.	27. (0 = 3h 35'. 29. 9 × A diff. Lat. 4'. 30. (n × 18h 53'.
21 22 23 24 25	Su. M. Tu. W. Th.	12th Sunday after Trinity. [P. W. Hen. born. S. Bartholomew.	
26 27 28 29 30	F. Sa. Su. M. Tu.	[S. Aug. 13th Sunday after Trinity. Beheading of St. John [Baptift.	ALL STATE
31	W.		

[82] JULY 1768.						
Diffances o	f b's Center	from Stars,	and from ©	west of her.		
Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.		
-	0 1 11	0 1 11		0 1 11		
2 Antares.	50, 6, 30 63, 34, 11 77, 14, 14	51. 46. 46 65. 16. 4	53. 27. 14 68. 58. 8	55. 7.53 68.40.23		
3 & Capri- corni.	22. 34. 29 36. 20. 4 50. 15. 54	24. 16. 54 38. 4. 2	25. 59. 35 39. 48. 9	27. 42. 30 41. 32. 25		
6 a Aquilæ.	55. 23. 56 67. 19. 17 79. 41. 41	56. 51. 6 68. 50. 59 81. 15. 36		71.55.26		
8 a Pegafi.	44 52. 32 58. 21. 25 72. 1. 12 85. 41. 40	46. 32. 33 60. 3. 32 73. 43. 54	48, 12, 56	49. 53. 40 63. 28. 9		
11 2 Arietis.	42. 29. 47	44. 14. 31	45. 59. 10	47. 43. 43		
17 18 19 20 21 122 23 24	41, 26, 4 52, 49, 45 63, 59, 27 74, 59, 1 85, 52, 56 96, 46, 15 107, 44, 1	54. 14. 10 65. 22. 22 76. 20. 57 87. 14. 32 98. 8. 8	55. 38. 22 66. 45. 8 77. 42. 49 88. 36. 8 99. 30. 7	57. 2.22 68. 7.46 79. 4.37		
22 23 24 Spica 収 25 26	16. 25, 20	17. 52. 48 29. 41. 44 4 54. 3.	19. 20. 3. 31. 11. 20 2 43. 16.	32. 41. 14		
26 27 28 Antares, 29 30	19. 23. 20 32. 17. 2 45. 32. 4 59. 8. 73. 0. 5	7 33. 55. 4 7 47. 13. 3 7 60. 51. 2	3 35. 34. 1	9 37. 13. 15		
β Capri- 31 corni.	18. 24. 32. 23. 5 46. 36. 4	8 34. 10.	6 21. 52. 2 4 35. 56. 2	23. 37. 2 37. 42. 48		

E	JULY 1768. [83]							
100	Distances		THE RESERVE AND PARTY AND PERSONS.	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	west of her,			
Da	Stars	12 Hours,	15 Hours.	18 Hours.	21 Hours.			
VS.	Names.	0 1 11	0 1 11	0 1 11	0 1 11			
1 2	Antares.	56, 48, 44 70, 22, 49	58. 29. 48 72. 5. 26	60. 11. 3. 73. 48. 12	61. 52. 31			
3 4	3 Capricorni.	29. 25. 41 43. 16. 49	31. 9. 1 45. 1. 24		34. 36. 13 48. 30, 56			
56.7	z Aquilæ.	61, 16, 56 73, 28, 10 85, 58, 11		64. 17. 9 76. 34. 27				
78 9	z Pegafi.	38. 17. 30 51. 34. 47 65. 10. 38 78. 51. 51	39. 55. 25 53. 16. 7 66. 53. 12 80. 34. 25	54. 57. 39 68. 35. 50	56. 39. 26 70. 18. 29			
11	2 Arietis.	49. 28. 11	51. 12. 29	52. 56. 39	54. 40. 41			
17 18 19 20 21 22 23	The Sun.		59. 49. 45 70. 52. 36 81. 48. 2 92. 41. 1 103. 36. 35		62. 36. 24 73. 36. 59 84. 31. 20 95. 24. 47 106. 21. 28			
21 22 23 24 25	Spica m	10. 40. 17 22. 16. 59 34. 11. 16 46. 19. 39 58. 44. 38	12. 5. 41 23. 45. 33 35. 41. 29 47. 51. 49 60. 19. 3	13. 31. 43 25. 14. 20 37. 11. 57 49. 24. 14 61. 53. 46	14. 58. 17 26. 43. 22 38. 42. 37 50. 56. 56 63. 28. 48			
26 27 28 29	Antares.	25. 47. 44 38. 52. 31 52. 18. 6 66. 2. 34	27. 24. 40 40. 32. 6 54. 0. 10 67. 46. 47	42. 12. 0 55. 42. 32	30, 39, 31 43, 52, 14 57, 25, 11 71, 15, 55			
30	BCapricorni.		27. 7. 3 41. 16. 11		30. 38. 5 44. 49. 53			

WI :

[84] EJULY	1768.
	[2] [2]
Configurations of the SATEL	LITES OF JUPITER
at 9 o' th' Clock in	the Evening.
Ila si policina C	1. 3. 2.0
2 = 401 - 10 lb (2 1 3 . C)	
3 1 1 1 3 14 3 1 1 1 1 1 1 C	1. ,2
4 1.0	
5 1 0 2. 1 3 .4 0	
6	
The DE Million of The Co	
8 2 6 .2 it 3. C	
THE RESIDENCE OF THE PARTY OF T	
10 0a 13. C	
12 10	
13	
14 8 House 461 G	,2 ,3
15 9 10 M 81 4. 19 19 19)2. 3.
16 2 4. 2.11	
17	12 1
18 4 6	
10 '4 '3 ₂ , G)1.
21 4 1. 6	
22 4.0	
)3, 4
24 2.0 3. @	
25 3 1 6	2,
)1.
27 1.0	
28 1 •	417
29	
31 3.42 (
3.420	

Phase of the Moon.			AUGUST	[85]
M. Lammas-Day. First Quarter — 20. 2. 33 Full Moon — 27. 12. 1	Days of the Month.	Days of the Week,	Sundays, Holidays, &c.	D. H. / Laft Quarter — 4, 21, 17
6 Sa. 7 Su. 10th Sunday after Trinity. 8 M. 9 Tu. 10 W. S. Lawrence. 11 Th. 12 F. 13 Sa. 14 Su. 15 M. 16 Tu. 17 W. 18 Th. 19 F. 20 Sa. 21 Su. 12th Sunday after Trinity. 19 F. 20 Sa. 21 Su. 22 M. 23 Tu. 24 W. 25 Th. 26 F. 27 Sa. 28 Su. 13th Sunday after Trinity. 29 M. 20 Genters W at 5h 11'. 21 Gentle Sunday after Trinity. 21 Gentle Sunday after Trinity. 22 M. 23 Tu. 24 W. 25 Th. 26 F. 27 Sa. 28 Su. 13th Sunday after Trinity. 29 M. 20 Genters W at 5h 11'. 21 Gentle Sunday after Trinity. 22 M. 23 Tu. 24 W. 25 Th. 26 F. 27 Sa. 28 Su. 13th Sunday after Trinity. 29 M. 20 Beheading of St. John 20 Beheading of St. John	2 3 4	Tu. W. Th.	Lammas-Day.	First Quarter — 20. 2.33 Full Moon — 27. 12. 1 Other Phenomena. D.
11 Th. Prs. of Brunfwick born. 12 F. Pr. of Wales born 1762. 13 Sa. 14 Su. 15 M. 16 Tu. Prince Frederick born. 17 W. 18 Th. 19 F. 20 Sa. 21 Su. 22 M. 23 Tu. 24 W. 25 Th. 26 F. 27 Sa. 28 Su. 13th Sunday after Trinity. 29 M. Beheading of St. John 17 St. 13th Sunday after Trinity. 29 M. Beheading of St. John	7 8 9	Su. M. Tu.	10th Sunday after Trinity. [Name of Jefus,	5. (n Pleiadum 20h 10'. 7. (3 post & 8 16h 14'. 9. (d II 9h 13'. 11. (& Q. 21h 57'. 12. (o Q. 2h 49'.
16 Tu. Prince Frederick born. 27. (0 000 3h 35'. 17 W. 18 Th. 19 F. 20 Sa. 21 Su. 12th Sunday after Trinity. 22 M. [P. W. Hen. born. 23 Tu. 24 W. S. Bartholomew. 25 Th. 26 F. 27 Sa. [S. Aug. 28 Su. 13th Sunday after Trinity. 29 M. Beheading of St. John	12 13 14	F. Sa. Su.	Pr. of Wales born 1762.	17. 9 a St diff. Lat. 54'. 20. ¶ σ M 15h 44'. 2 Stationary. 21. ¶ θ Ophiuchi 18h 28'. 22. ⊙ enters M at 5h 11'.
22 M. [P. W. Hen. born. 23 Tu. 24 W. S. Bartholomew. 25 Th. 26 F. 27 Sa. 28 Su. 13th Sunday after Trinity. 29 M. Beheading of St. John	17 18 19	W. Th. F.	Prince Frederick born.	27. (θ 3 3h 35'. 29. Q χ Ω diff. Lat. 4'.
27 Sa. [S. Aug. 28 Su. 13th Sunday after Trinity. 29 M. Beheading of St. John	22 23 24	M. Tu. W.	[P. W. Hen. born.	
31 W.	27 28 29 30	Sa. Su. M. Tu.	13th Sunday after Trinity. Beheading of St. John	THE STATE OF

[86]		AUG	UST	1768.		
Days of Mont	Days of	Sun's Longitude.	Sun's Right Afc. in Time.	Sun's Declin. North.	Equat. of Time Add.	Diff.
h. the	the	a o + - 11	h 7 11	0 1 11	Section 1	78
1 2 3 4 5	M. Tu. W. Th. F.	4. 9. 36. 18 4. 10. 33. 45 4. 11. 31. 13 4. 12. 28. 43 4. 13. 26. 14	8. 52. 5 8. 55. 57 8. 59. 48	17. 52. 9 17. 36. 42 17. 20. 57 17. 4. 54 16. 48. 35	5.44,4 5.39,7 5.34,3	4,2 4,7 5,4 5,9
7 8 9	Sa. Su. M. Tu. W.	4. 14. 23. 46 4. 15. 21. 20 4. 16. 18. 55 4. 17. 16. 32 4. 18. 14. 11	9. 11. 18	16. 31. 59 16. 15. 7 15. 58. 0 15. 40. 36 15. 22. 58	5.21,9 5.15,0 5. 7,4 4.59,2 4.50,4	6,5 6,9 7,6 8,2 8,8
13	Th. F. Sa. Su. M.	4. 19. 11. 51 4. 20. 9. 32 4. 21. 7. 14 4. 22. 4. 58 4. 23. 2. 43	9. 30. 17 9. 34. 3 9. 37. 49	15. 5. 5 14. 46. 58 14. 28. 36 14. 10. 0 13. 51. 11	4.41,1 4.31,3 4.20,9 4.10,6 3.58,6	9.3 9.8 10.4 10.9 11.4
17 18 19	Tu. W. Th. F.	4. 24. 0. 29 4. 24. 58. 16 4. 25. 56. 5 4. 26. 53. 54 4. 27. 51. 45	9. 49. 3	13. 32. 9 13. 12. 53 12. 53. 25 12. 33. 45 12. 13. 53	3.21,1	12,5 13,0 13,6 14,0
22 23 24	Su. M. Tu. W. Th.	4. 28. 49. 37 4. 29. 47. 29 5. 0, 45. 23 5. 1, 43. 18 5. 2, 41. 15	10. 3. 53 10. 7. 35 10. 11. 16 10. 14. 57 10. 18. 37	11. 33. 35 11. 13. 9 10. 52. 33	2.39,0 2.24,0 2. 8,5 1.52,6 1.36,3	14,5 15,0 15,5 15,9 16,3
27 28 29	F. Sa. Su. M. Tu.	5. 3. 39. 14 5. 4. 37. 13 5. 5. 35. 14 5. 6. 33. 17 5. 7. 31. 22	10, 22, 17 10, 25, 56 10, 29, 35 10, 33, 14 10, 36, 52	9. 28. 28	1.19,6 1. 2,5 0.45,1 0.27,3 0. 9,1	16,7 17,1 17,4 17,8 13,2
31	W.	5. 8. 29. 29	10. 40. 30	8, 23, 47	Cubia	18,7

	A U G U S T 1768. [87]								
Days.	meter of	Time of D° pailing the Meridian.	Hourly Motion of the Sun.	Logarithm of the Sun's Diftance.	Place of the Moon's Node,				
100	1 11	1 -11	1 11	N. Carlo	3.00				
7 13 19	15. 49, 1 15. 50, 0 15. 51, 1 15. 52, 3 15. 53, 5	1. 6, 5 1. 6, 0 1. 5, 5 1. 5, 0 1. 4, 6	2. 24,6	The second second second	9. 10. 51 9. 10. 32 9. 10. 13 9. 9. 54 9. 9. 35				

Ecliples of the SATELLITES of JUPITER.

I. Satellite Emersion	2 - 1	II. Satellite. Emerfions.		III. Satellite.		
-	-" D.	h / //		h / //		
2 16. 36 4 11. 5 6 5. 34 8 0. 3 9 18. 32 11 13. 1 13. 7. 30 15 1. 59 16 20. 28 18 14. 57 20 9. 26 22 3. 55 23 22. 24 25 16. 53 27 11. 22 29 5. 51 31 0. 26	. 48 5 . 37 9 . 26 13 . 23 16 . 20 20 . 13 23 . 13 27 . 13 . 13 . 17 . 18 . 27 . 31	9*14. 24 22. 33. 4 11. 51. 53 1. 10. 54 14. 30. 0 3. 49. 15 17. 8. 41 6. 28. 9 19. 47. 40	14 14 21 21 28 28 28	1. 34. 41 3. 32. 25 F 5. 35. 7 7. 31. 56 F 9. 35. 55 11. 31. 48 F 13. 37. 4 15. 32. 9 F		

Heliocen- Heliocen- Geocen- Geocen- tric Lon- tric Lati- tric Lon- tric Lo	[88] AUGUST 1768.							
Tric Longitude. tric Longitu	The Paris of the Control of the Cont							
M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . gr. Elong. 25 ^d . M E R C U R Y. inf. of 7 ^{d Sb 1} / ₂ . qr. log. 37 A 11. 36 6.59 4. 15. 51 4. 41 11. 38 23. 50 1311. 7. 36 22. 52 4. 15. 45 1. 10 17. 50 23. 56 13. 4. 21. 14 3. 7 4. 21. 10 1. 18 15. 43 0. 2 22. 52 4. 12. 42 1. 10 1. 18 15. 43 0. 2 23. 56 13. 4. 21. 14 3. 7 4. 21. 10 1. 18 15. 43 0. 2 23. 56 13. 4. 21. 14 3. 7 4. 21. 10 1. 18 15. 43 0. 2 23. 56 13. 17 0. 9 25 5. 10. 44 3. 23 5. 6. 1 1. 24 10. 37 0. 15 M A R S. M A R S.		tric Lon tric La Declina Panage						
M E R C U R Y. inf. of 7 ⁴ 5h 1. gr. Elong. 25 ⁴ . 1 9. 24. 37	office tude	gitude titude tion. Merid						
M E R C U R Y. inf. 6 7d 5h 1. gr. Elong. 25d. 1 9.24.37 6.31 S 4.20.22 4.43 S 10.14 N 0.37 7 10.14.36 6.59 4.15.51 4.41 11.38 23.50 13 11. 7.47 6.29 4.11.43 3.42 13.43 22.52 19 0.5.26 4.32 4.10.49 2.1 15.36 22.52 25 1. 8.24 0.53 4.14.28 0.18 16.13 22.49 V E N U S.	Stante today	S. C.						
1 9, 24, 37 6, 31 S 4, 20, 22 4, 43 S 10, 14 N 0, 37 7 10, 14, 36 6, 59 4, 15, 51 4, 41 11, 38 23, 50 13 11, 7, 47 6, 29 4, 11, 43 5, 42 13, 43 23, 13 19 0, 5, 26 4, 32 4, 10, 49 2, 1 15, 36 22, 52 25 4, 8, 24 0, 53 4, 14, 28 0, 18 16, 13 22, 49 V E N U S. fup. 6 12 20 20 1 4, 11, 28 2, 50 4, 13, 45 1, 10 17, 50 23, 56 13 4, 21, 14 3, 7 4, 21, 10 1, 18 15, 43 0, 2 19 5, 0, 59 3, 18 4, 28, 36 1, 23 13, 17 0, 9 25 5, 10, 44 3, 23 5, 6, 1 1, 24 10, 37 0, 15 M A R S. M A R S. M A R S.	1 60 1 0 1	5 0 0 1 0 1 1 1 0 1 h						
1 9, 24, 37 6, 31 S 4, 20, 22 4, 43 S 10, 14 N 0, 37 7 10, 14, 36 6, 59 4, 15, 51 4, 41 11, 38 23, 50 13 11, 7, 47 6, 29 4, 11, 43 5, 42 13, 43 23, 13 19 0, 5, 26 4, 32 4, 10, 49 2, 1 15, 36 22, 52 25 4, 8, 24 0, 53 4, 14, 28 0, 18 16, 13 22, 49 V E N U S. fup. 6 12 20 20 1 4, 11, 28 2, 50 4, 13, 45 1, 10 17, 50 23, 56 13 4, 21, 14 3, 7 4, 21, 10 1, 18 15, 43 0, 2 19 5, 0, 59 3, 18 4, 28, 36 1, 23 13, 17 0, 9 25 5, 10, 44 3, 23 5, 6, 1 1, 24 10, 37 0, 15 M A R S. M A R S. M A R S.	MERCUI	R V inf & nd Sht on Flore and						
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3 4	eba- ini	79. 30. 16 65. 20. 50 51. 14. 0 37. 17. 11 23. 44. 42	63. 34. 41	75. 58. 4 61. 48. 36 47. 43. 33 33. 50. 45	74. 11. 54 60. 2. 36 45. 58. 35 32. 8. 11				
4	Sun.	115. 1.55 101.43.30 88.30.34 75.25.15 62.28.37 49.42.6 37.7.10	73. 47. 39 60, 52. 13	98. 24. 39 85. 13. 27 72. 10. 12 59. 15. 59	96. 45. 21 83. 35. 5 70. 32. 53 57. 39. 55				
14 15 Spic 16	a ne	35, 56, 6 23, 45, 53 11, 54, 50	22. 15. 44	32. 52. 6 20. 45. 52					
18	tares.	57. 13. 48 45. 19. 27 33. 30. 3	43. 50. 35	42, 21, 46					
20	quilæ.	88. 30. 55 78. 3. 47 67. 40. 7	76. 45. 35 66. 22. 32	75. 27. 26	84. 35. 32 74. 9. 22 63. 47. 49				
21 For 22 ha	nal- iut.	81. 25. 22 70. 21. 15	80. 2.46	78. 40. 3	77. 17, 12 66. 10. 38				
23 24 25 26	Pegafi.	77. 41. 45 65. 10. 25 52. 22. 9 39. 26. 44	50. 45. 16	61. 59. 41	60. 23. 58				
27 a A	Arietis.	66, 17, 48 51, 52, 29 70, 6, 40	50. 3. 30	48, 14, 22	46. 25. 9				
30 Ala	leba- an.	55. 32. 28 41. 6. 35 27. 3. 54	53. 43. 33 39. 19. 32	51. 54. 47					

	Section 1		UST	The second second	[93]
	Distances	of D's Cente	er from Stars	and from	gaft of her.
Days.	Stars Names,	12 Hours.	15 Hours.	18 Hours.	21 Hours.
	-1-4	0 / //	0 / //	0 / 11	0 1 1
1 2 3 4	Aldeba- ran.	72. 25. 41 58. 15. 39 44. 13. 49 30. 26. 7	70. 39. 27 56. 30. 48 42. 29. 16 28. 44. 39	68. 53. 14 54. 45. 5 40. 44. 58 27. 3. 52	52. 59. 29 39. 0. 56
2 3 4 5 6 7 8	The Sun.	121. 42. 33 108. 22. 11 95. 6. 10 81. 56. 50 68. 55. 43 56. 4. 0	120. 2. 20 106. 42. 25 93. 27. 6 80. 18. 44 67. 18. 43 54. 28, 16	118. 22. 19 105. z. 42 91. 48. 9 78. 40. 47 65. 41. 52 52. 52. 42	116. 42. 1 103. 23. 4 90. 9. 18 77. 2. 57 64. 5. 10
14	Spica 収	43. 23. 5 29. 49. 4 17. 47. 10	28. 17. 53 16. 18. 25	40. 14. 43 26. 46. 57 14. 50. 5	
16	Antares.	51. 15. 46 39. 24. 20	37-55-43		46. 48. 24 34. 58. 34
19 20	z Aquilæ.	83. 17. 7 72. 51. 21 62. 30. 41	71. 33. 24		
20 21 22	haut.	86, 54, 19 75, 54, 13 64, 46, 59	74.31. 7		
22 23 24 25 26	z Pegafi.	83. 50. 15 71. 28. 23 58. 47. 59 45. 54. 16 33. 4. 11	69. 54. 19	68. 19. 58 55. 35. 24	66. 45. 20 53. 58. 52
26 27 28	.a Arietis.	73. 24. 25 59. 6. 47 44. 35. 50	71, 38, 12 57, 18, 28	69. 51. 41	
28 29 39 31	Aldeba- ran.	77. 23. 33 62. 49. 13 48. 17. 47 34. 0. 56	60. 59. 54	59. 10. 40	57. 21. 31

19			UST		
V.	Distances	of D's Cente	en from Stars,	, and from G	well of her
Days	Stars Names.	Noon	3 Hours.	6 Hours.	9 Hours.
	Litanics	0 1 11	0 1 11	0 1 ,11	0 1 11
I	H 1/1 00	52. 26. 10	53. 53. 28	55. 21. 39	56. 50. 38
2	z Aquilæ.	64. 25. 8	65-57-32	67.30.19	60. 3. 26
3	1000	76. 52. 43	11-01-11	TO SHE DAY	-
3	V 21 197	29. 7.22 41.56.31	30. 40. 6	32- 14- 4 45- 15- 16	33. 49. 8 46. 55. 8
4 56	z Pegafi.	55. 17. 41	56. 58. 36	58. 39. 37	60. 20. 42
	No de	68. 46. 13	# SARRED	114 0	3
6	11.52.52	25. 12. 33			30. 20. 56
1700	α Arietis.	-38, 55, 20 52, 34, 18	40. 38. 4	42. 20. 42	44 -3. 150 - n lant A
8	Aldeba-	21. 11. 18	22. 45. 30		
10	ran.	34 1 9	35. 38. 47 48. 40. 15		
16	ACCOUNT OF THE PARTY.	47. 2. 43	46. 40. 52	50. 17. 40 48. 3. 1	
1.00	COLUMN TO SERVICE STREET	56. 13. 47			
17		67. 4.31	68. 25. 45	69.47. 0	71. 8. 15
19	NE ELL DIN	77. 55. 3		80. 38. 7	81. 59. 47
20	17-167 609	99. 54. 7	101. 18. 4	91. 34. 48	92. 57. 33
32	A will be a second	111. 12. 31	112. 38. 31		
40	7 00 7	35. 3.42	37. 33. 10	39. 2.50	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN
41		48. 5. 3	49. 35. 12		52. 39. 15
22	1	72. 57. 14	All the second s		
23		40. 15. 34			
20	Antares.	53-39-24		57. 4. 17	
28		67. 28. 21	A TOTAL STREET		1-348
zf	LAL STOTAL	12. 57. 14	14. 40. 19		18. 8.36
25	comi	26, 58. 49		30. 33. 47	32. 21. 45
100	The same of	48. 19. 37	-	FF 12 CO	52.42.55
	a Aquila	60, 21, 18	61.55. 9	63, 29, 34	65, 4.31
133	1000	73. 5. 6			
in.	Z Pegafi.	38. 21. 13	40. 1.52	41. 43. 1	43. 24. 35
14	-	-	-	-	The second lines

	A U GIU S T 1768 [95]								
温	Distances	of D's Cente	r from Stars	, and from (west of her.				
Days	Stars Names	12 Hours.	15 Hours.	18 Hours.	21 Hours.				
	- Typings	6 1 11	0 1 11	0 1 11	0 1 11				
2	z Aquilæ.	70. 30. 51	59. 50. 43 72. 10. 31	73. 44. 24	62. 53. 9. 75. 18. 28				
3 4 5	z Pegafi.	35. 25. 8 48. 35. 17 62. 1. 49	37. 1.59 50. 15. 39 63. 42. 56		40. 17. 47 53. 36. 52 67. 5. 8				
6 7	a Arietis.	32. 3. 53 45. 45. 43	33. 46. 48 47. 28. 2	35. 29. 40 49. 10. 14	37. 12. 31				
8 9	Aldeba- ran.	27. 32. 32 40. 32. 1 53. 32. 12	29. 9. 15 42. 9. 45	30. 46. 19 43. 47. 28	32. 23. 38 45. 25. 7				
15 16 17 18		39. 48. 15 50. 46. 58 61. 39. 39	52. 8. 48 63. 0. 47	64. 22. 3	54. 52. 12 65. 43. 18				
19 20 21	The Sun.	72, 29, 31 83, 21, 32 94, 20, 28 105, 31, 19	84. 43. 24 95. 43. 34 106. 56. 12	86. 5.24 97. 6.53 108. 21. 22	76. 33. 36 87. 27. 32 98. 30. 24 109. 46. 48				
20 21 22	Spica ng	42. 2.44 54.11. 9	43. 32. 59	45. 3. 27 57. 15. 45 69. 46. 14	46. 34. 8 58. 48. 28				
23		79. 23. 31	35. 20. 43	36. 58. 35	38. 36. 52				
25	Antares.	46. 54. 20	48. 35. 1 62. 14. 34		51. 57. 33 65. 43. 23				
27	в Capri- corni.	19. 53. 39 34. 10. 0	35. 58. 31	37. 47. 19	-				
-	a Aquila.	66. 39. 56							
30	a Pegali.	31. 45. 55 45. 6, 29	33. 23. 26 46. 48. 39		36. 41. 12 50. 13. 33				
4	100				-				

	Maria de la companya della companya della companya della companya de la companya della companya	
E	6 AUGUST	1768.
C	onfigurations of the SATELLIT	
E	at 9 o' th' Clock in th	ne Evening.
1	463 4 0	
2		2.
3	4.	3.0
4	+ 0	4 4 1
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6	-4 2 1. O	COMMERCIAL PROPERTY.
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		1 2 mar 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9	2 • 3	THE RESERVE
10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Walface The Total
11	O ₁ . "	STATE OF THE PARTY
12	1.0	2/ 7.
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		DEAL DESIGNATION OF THE PARTY O
22	4 3. 1. 0	一一一一一一一一
23	3, 1, 0 3 d 4 0 2.	HOATHA TANDENAN
24	2.361 4 0	The state of the s
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26	. 0	2. 4.3
27	1 0	A SE MONTH
28	3 • .2 0 .1	12 12 12 14
29	3. 1. 0	1201-11
30	0 2	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
21	-3 0	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN

and the		SEPTEMB	ER 1768. [97]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	D. H. / Laft Quarter — 3. 3. 7 New Moon—10. 15. 19
1 2 3 4 5	Th. F. Sa. Su. M.	Giles. Lond, burnt, 1666, O.S. 14th Sunday after Trinity.	First Quarter —18, 19, 39 Full Moon ——25, 20, 51
6 7 8 9	Tu. W. Th. F. Sa.	Enurchus. Nativity of B. V. Mary.	D. 2. ("Pleiadum ih 51".
11 12 13 14 15	Su. M. Tu. W. Th.	15th Sunday after Trinity. Holy Cross.	
16 17 18 19 20	F. Sa. Su. M. Tu.	Lambert. 16th Sunday after Trinity	22. Θ enters = 1°31'. 23. (θ = 14°12'. 25. Q θ my diff. Lat. 45'. 27. (π + 4°14'. 29. (π Pleiadum 9°25'.
21 22 23 24 25	W. Th. F. Sa. Su.	St. Matthew. K. George III. crowned [1761 17th Sunday after Trinity	Charles I have been
26 27 28 29 30	M. Tu. W. Th. F.	St. Michael. St. Jerome.	

[98]	S	EPTE	MBE	R 176	8.	-1
REE		Sun's		Sun's De-		
Nay	WE	Longitude.	ght Afc.	clination		Diff.
ont of	E af	Par all to	in Time.	North	Sub	21
the h.	the	5 0 1 11	h / 77	0 1 11	1 11	11
1	Th.	5. 9. 27. 37	10. 44. 8	8. 1.57	0.28,0	200
2	E.	5. 10, 25. 48	10, 47, 46	7- 39- 59	0 40 0	19,0
3	Sa.	5. 11. 24. 1	10. 51. 23	7. 17. 53	F. 242	19,4
4	Su. M.	5. 12. 22. 16	10. 55. 0	6. 55. 40	1.275	19,6
3	-	3. 43. 20. 33	10. 54. 57	0. 55. 19	1.45,3	19.8
10 68	Tu.	5. 14. 18. 52	11. 2. 14	6. 10. 52	2. 5.1	20,1
7373	W.	5. 15. 17. 13	11. 5.50	5. 48. 20	2.25,2	20,2
8	Th. F.	5. 15. 15. 36	11. 9. 26	5. 25. 40	2 - 8	20,4
10	Sa.	5. 17. 14. 2	11. 13. 2	5. 2.56		20,5
-	1 27 No	31.41.43	30	4.4.		20,6
11	Su.	5. 19. 10. 59	11. 20. 15	4. 17. 11	3.46,9	20,7
12	M.	5. 20. 9. 30	11. 23. 50	3. 54. 12	4. 149	20,8
13	Tu.	5. 21. 8. 3	11. 27. 26	3. 31. 9	4.20,4	20,8
14	Thi	5. 23. 5. 15	11. 34. 37	2. 44. 50		20,8
-		7 32 7 32		-		20,9
	F.	5. 24. 3. 53	11. 38. 13	2. 21. 37	5.30,9	20,9
17	Su.	5. 25. 2. 33	11. 41. 48	1. 58. 21	7.7 - 3	21,0
18	M.	5, 26, 1. 15	11. 45. 24	I. 35. 1 I. II. 40	6 22 8	21,0
20	Tu.	5. 27. 58. 43	11. 52. 35	0. 48. 17	0.54,7	20,9
-	***	ndres e la trible		a sulface	- Consumer of	20.8
21	W.		11. 56. 11	0. 24. 53	7.15,5	20,8
22	Th.	5. 29. 55. 18	11, 59, 47	O. 1. 27 South.	7.39,3	20,6
23	F.	6. 0. 55. 8	12. 3. 22	0. 21. 57	7.56.0	20.5
24	Sa.	6. 1,54. 0	12. 6. 58	0. 45. 25	The Cartie	20.3
25	Su.	6. 2.52.54	12. 12. 35	1. 8.50	2121	20,1
26	M.	6. 3. 51. 49	12. 14. 11	1. 32. 16	0 0	20,0
27	Tu.	6. 4.50.46	12. 17. 47	1. 55. 41	9,17,8	19,7
28	W. Th.	6. 5. 49. 46	12. 21. 24	2. 19. 6	73/25	19,4
30	F.	6. 6. 48. 49	12, 25, 1	3. 5. 52	77724	19,2
30		1.41.34	12, 20, 30	21 3134	1	18,9
-	-		-			

-	SE	PT	E M B	E R	176	8. [99]		
Days of th Month.	Semidia- meter of the Sun.		the Wotton	Logarit of the S Distance	Sun's	Place of the Moon's Node.		
300	" "	1 11	. "	11:0) (T)	. 0 1		
1 7 13 19 25	15. 55, 1 15. 56, 6 15. 58, 1 15. 59, 7 16. 1, 3	1. 4, 1. 4, 1. 4, 1. 4,	2. 25, 8 2. 26, 3 2. 26, 8	0. 0034 0. 0028 0. 0021 0. 0014 0. 0006	145	9. 9. 13 9. 8. 54 9. 8. 35 9. 8. 16 9. 7. 57		
S. S. S. S. S. S.	Eclipses of the Savellites of JUPITER.							
	Satellite.		Satellite. Emerions.	1 1	II. Sa	itellite.		
Days	b /	Days	6 / "	Days	A	1 4 00		
3 5 7 8	18. 49. 5 13. 19. 7. 48. 1 2. 17. 2	5 6	9. 7. 20 22. 26. 58 11. 46. 36 1. 6. 20	4 4 11	19.	38. 25 I 32. 49 E 40. 0 I		
THE REAL PROPERTY.	20. 46. 3	0 17	14. 26. 4	111		33. 33 E		
10 12 14 15		0 17 2 2 4		I	v. s	33. 33 E. atellite. 48. 40 d		

710	61	SE	PT	EN	1 B	F	2	136	8		
	-	COLUMN TO SERVICE	Helioce	-	eocen-		-	MALE	Contract of	Paffa,	re
S C	tric	Lon-	tric La	ti- tri	c Lon-	tric	La-	De		ove	rel
ays	gitu	e,	tude.	git	tude.	tito	ide.	цац	13	Meri	d.
-		1	. /		0 9	0	1	6	PR.	b	1
101	MERCURY. fup. of 18d 20%.										
1		1. 49		N 4.	23. 51	I.	9 N			23-	
	3. 2		6. 40		4. 28			11.	15	23. 2	
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2.5	6. 1	8. 36	3. 12	16.	7. 31			2,	75	0. 1	19
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DE	3.0	ALUE C	J	UP	IT	ER.				13	
I		y. 12			22.		6N	17.	33 S	2.3	
7	CONTRACTOR OF THE PARTY OF THE	9.39			23. 1		5	8.		2. 2	
19	7.	0. 34	4 P. S. C.		25. 31		3	8.		I. 4	-
25		1. 1		16.	26. 49	1,	3	9.		1.	30
SATURN.											
10	11-1		1366	SAT	UF	11.					
1		9. 51	8.30	\$1 3.	15.	0.		22.	9 N		
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	S	EPTI	EMBE	R =1768.	[101]
Days of Month	Days of Week.	Moon's Lon- gitude at Noon.	Moon's Lon- gitude at Midnight.	ritude at Noon.	Latitude at Midn.
the	the	S ° / "	S ° ' "	0 1 11	1 11.
3 4	Th. F. Sa. Su. M.	1. 11. 19. 26 1. 25. 40. 20 2. 9. 43. 46 2. 23. 29. 17 3. 6. 57. 36	1. 18. 31. 57 2. 2. 44. 19 2. 16. 38. 43 3. 0. 15. 28 3. 13. 35. 49	3. 35. 26 2. 36. 20 1. 29. 14	3. 7. 7 2. 3.32 0.54. 5 N
6 7 8 9	Tu. W. Th. F. Sa.	3. 20. 10. 32 4. 3. 9. 38 4. 15. 56. 35 4. 28. 32. 39 5. 10. 58. 55	4. 9. 34. 33 4. 22. 15. 59 5. 4. 46. 57	1. 57. 54 2. 56. 59 3. 46. 17	1.25.29 2.28.31 3.23. 1 4. 6.47 4.38.10
11 12 13 14 15	Su. M. Tu. W. Th.	5. 23. 15. 26 6. 5. 23. 31 6. 17. 23. 54 6. 29. 18. 9 7. 11. 8. 22	6. 11. 24. 38 6. 23. 21. 39 7. 5. 13. 32	5. 0. 20 4. 58. 14 4. 43. 8	4.56.20 5. 0.57 4.52.14 4.30.53 3.57.56
16 17 18 19 20	F. Sa. Su. M. Tu.	7, 22, 57, 42 8, 4, 50, 3 8, 16, 50, 1 8, 29, 2, 36 9, 11, 33, 5	8, 10, 48, 47 8, 22, 54, 25 9, 5, 15, 16	2. 49. 41 1. 53. 39 0. 51. 33 S	2.22.32 1.23.17 0.18.53 S
21 22 23 24 25	W. Th. F. Sa. Su.	10. 7. 46. 46 10. 21. 36. 31 11. 5. 55. 29	10. 1. 3. 0 10. 14. 37. 56 10. 28. 42. 31 11. 13. 15. 0 11. 28. 9. 48	2. 26. 48 3. 25. 35 4. 13. 37	1.54.46 2.57.14 3.51.13 4.32. 9 4.55.46
26 27 28 29 30	M. Tu. W. Th. F.	0. 5. 42. 55 0. 20. 54. 19 1. 6. 3. 18 1. 20. 59. 44 2. 5. 36. 30	0, 28, 29, 49 1, 13, 33, 37 1, 28, 20, 53	4. 52. 58 4. 25. 17 3. 39. 44	4.59.10 4.41.35 4. 4.30 3.11.28 2, 7.16 N
100	100	art live	THE THE	12 13	

[102] 5	Bal	PT	E M B	ER	1768.	
E	Da	9		D's Right		p's De-	D's De-
Mor	ys of Veck			Afcen, at Noon,	Afc. at Midn.	clinat.	clin. at Midn.
of t	k, e	Age.	h //	0	0 /	100	N 100 St
the	ñ		The little		1	10	07
1000	Th.	21		37. 27	44.52		21, 13 N
_	F. Sa.	22	17. 23	67. 39	75. 16	24. 31	23. 48
4.	Sa.	24	19. 20	82, 49	90.17	24.47	24. 32
475	М.	25	20. 16	97. 36	104.44	23.36	22, 30
The second second	Tu. W.	26	21. 8	111. 42	118. 27	21. 6	19. 26
7 8	Th.	27	21.56	125. 0	131. 20	17.34	15. 29
119	F.	29		149. 23	155. 8	8. 27	5.56
10	Sa.	3	- 0	160. 47	166. 22	3. 23 N	0. 49 N
	Su.	2		171. 54	177. 26	1. 44 S	4. 15 8
12	Tu.	3		182. 48	188. 30	6.44	9. 8
14	W.	56	2.15	205. 30	2F1. 21	15:39	17. 32
15	Th.	0	3. 0	217. 18	223. 22	19.14	20, 45
116	F.	78	3.48	229. 35	235.53	22. 3	23. 6
17	Sa. Su.	9		242, 19	262, 11	23. 54	24. 27
19	M.	10	6, 20	268. 57	275. 44	24. 20	23. 41
20	Tu.	H	7. 13.	282. 32	289. 20	22:44	21. 28
21	W. Th.	12	The second second	296. 6		19:55	18. 5
22	F.	13 14		309. 33	329. 30	15.59	13. 39
24	Sa.	19	10,-40	336. 9	342.50	5: 26 S	2. 25 S
25	Su.	16		349- 33	350.21	0. 41 N	3. 48 N
25	M. Tu	17		3. 14	The second second	6:52	9.51
27	W.	18	-	32. 12	39.48	12.41	15. 20
29	Th. F.	20		47. 32 63. 10	55. 20	21. 33	22. 56
30	-	21	16. 25	03. 10	/1. 1	23.54	24. 27
		1	11	Produ	A. Sala		11-3

-	S	EP			2 1768	. [3	03]
Days of the Month.	Days of the	D at	Semid'. p at Mid- right.	D at	Hor, Far. D at Midnight.	Proport, Logar, at Noon.	Proport. Lo-
1 F. 3 S. 4 S. N	4.	16, 21 16, 13 16, 4 15, 54 15, 44	16. 17 16. 8 16. 0 15. 49 15. 40	\$9. 59 59. 31 58. 57 58. 21 57. 45	58. 38	4772 4806 4848 4892 4937	4827 4871 4915
7 N		15. 35 15. 26 15. 18 15. 10 15. 3	15. 30 15. 22 15. 14 15. 6 15. 0	57. 11 56. 38 56. 9 55. 39 55. 13	56. 54 56. 22 55. 53 55. 26 55. 2	4986 5022 5059 5098 5132	5042 5080 5115
12 M 13 T 14 V	u. L. V.	14. 57 14. 52 14. 48 14. 46 14. 46	14. 54 14. 50 14. 47 14. 46 14. 46	54. 51 54. 32 54. 19 54. 11 54. 11	54. 41 54. 25 54. 14 54. 10 54. 13	5161 51 6 5203 5214 5214	5195 5210 5215
18 8	a. u. I.	14. 48 14. 52 15. 0 15. 10 15. 22	14. 50 14. 56 15. 4 15. 15 15. 29	54. 19 54. 35 55. 2 55. 38 56. 22	54. 26 54. 47 55. 19 55. 59 56. 49	5203 5182 5146 50 9 5042	5 124 5 124 5 072
22 T 23 F 24 S	V. h. a.	15. 36 15. 52 16. 7 16. 21 16. 32	15. 44 15. 59 16. 14 16. 27 16. 36	57. 16 58. 13 59. 9 60. 0 60. 40	57. 44 58. 40 59. 35 60. 22 60. 56	4973 4902 +033 +771 4723	4869 4801 4745
27 1 28 V 29 1	A. Pu. Ph.	16. 39 16. 41 16. 38 16. 31 16. 20	16. 41 16. 40 16. 35 16. 26 16. 14	61. 7 61: 14 61. 4 60. 37 59: 59	61. 13 61. 11 60. 52 60. 20 59. 36	4691 4683 4694 4727 4772	4686 4709 4747
			100	Total !			

[1	Diffances of p's Center from Stars, and from @ eaft of her.							
腰	Diffances of	of D's Cente	r from Stars,	and from G	east of her.			
Days	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.			
1	FEE . 19	0 1 11	0 1 11	0 , 11	6. 1 R			
1 2 3	Pollux.	68. 22. 34 54. 12. 7 40. 21. 31	66. 35. 20 52. 27. 6	64. 48. 22 50. 42. 24				
1 2 3 4 5 6 7	The Sun.	104. 43. 41 91. 40. 9 78. 53. 13 66. 22. 57	116. 22. 10 103. 4. 51 90. 3. 23 77. 18. 33 64. 50. 19 52. 37. 54	101. 26. 16 88. 26. 52 75. 44. 7 63. 17. 56	99. 47. 56 86. 50. 37 74. 9. 58 61. 45. 48			
13	Antares.	43. 57. 42 37. 6. 38	35. 38. 5					
15 16 17	z Aquilæ.	81. 9. 52 70. 47. 1 60. 33. 8	69. 29. 39	78. 33. 33 68. 12. 27	77. 15. 32 66. 55. 25			
17	COTHI.	56. 26. 13 44. 26. 3 32. 13. 15	42. 55. 14	53. 27. 8 41. 24. 11	51. 57. 22 39. 52. 57			
19 20 21 22 23	z Pegafi.	82. 1, 27 69. 54. 8 57. 29. 36 44. 50. 59 32. 13. 42	68. 22. 0 55. 55. 23 43. 15. 41	66. 49. 36 54. 20. 58 41. 40. 24	65. 16. 55 52. 46. 21 40. 5. 13			
23 24 25	a Arietis.	72. 30. 31 58. 16. 51 43. 41. 7	56. 28. 25	68. 59. 29 54. 39. 40	67. 13. 21 52. 50. 36			
25 26 27 28 29	Aldeba- ran.	76, 28, 57 61, 39, 41 46, 45, 39 32, 2, 28 18, 2, 32	59. 47. 56 44. 54. 15 30. 14. 0	43. 3. 4	56. 4. 17 41. 12. 6			
30	Pollux.	58. 50. 36 44. 26. 23 30. 32. 54	42. 40. 15	55. 12. 13 40. 54. 39	53. 23. 34 39. 9. 34			

-	erner Marra								
-	Diffances of p's Center from Stars, and from © east of her								
183	Diltances			CONTRACTOR AND ADDRESS OF THE PARTY.	east of her				
Da	Stars	12 Hours.	15 Hours,	18 Hours.	21 Hours.				
VS.	Names.	0 1 11	0 1 11	0 1 11	9 1 IF				
	Du S	61, 15, 11	59. 28. 59	57. 43. 4	55- 57- 27				
1	Pollux.	47. 14. 1	45. 30. 19	43. 47. 1	.42. 4. 4				
1	187 704	111 21 28	100 45 40	108. 2. 6	106 22 42				
2	10000	98. 9. 52		94. 54. 30					
9		85. 14. 37	83. 38. 52	82. 3. 24	80, 28, 10				
-2	5242 266	72. 36. 4	71. 2, 24	69. 29. 0					
5	105-200	60. 13. 54		57. 10. 47	55. 39. 34 43. 38. 48				
0	12.10.	400 7019	40. 31. 31	45. 0. 2	43, 30, 40				
12	CALL PORT	54. 55. 19		51. 56. 18					
13	The same of the same of	43. 1.34	41. 32. 44	40. 3.58	38. 35. 16				
14	1.05 体化	31, 12, 46	18 88 20	4/17/34/	- COR 82				
14	Charter	86, 23, 22	85. 4.54	83. 46. 30	82. 28. 10				
15	The state of the s	75. 57. 36 55. 38. 32	74- 39- 46	73. 22. 4	72. 4.29				
16		55. 38. 32	64. 21. 51	63. 5.23	61.49. 9				
17	β Capri-	50. 27. 27	48, 57, 22	47. 27. 6	45, 56, 40				
18	A CONTRACTOR OF THE PARTY OF TH	38. 21. 29		35. 17. 51					
	1000		n + 00 m	70 18	P2 06 0				
19	T 20 2 2 2	75. 59. 57	74. 28. 54	72. 57. 35	71. 26. o				
21	a Pegafi.	51, 11, 34	49. 36. 36	48. I. 29	46. 26. 16				
22	1 24	38. 30. 13	36. 55. 28	35. 21. 4	33.47. 7				
		65. 26. 48	62 20 52	6x 52 24	60 4 54				
23	z Arietis,	51. 1. 13	63. 39. 52		60. 4.54				
	THE PARTY NAMED IN		The same of the sa	-/10 TT	174				
25	1111	69. 5.39	67, 14, 21	65. 22. 55	63. 31. 22				
26	Aldeba-	54. 12. 24 39. 21. 23	52. 20. 33	50. 28, 49 35. 41. 3	48. 37. 11				
27	ran.	24. 53. 11	37. 31. 1 23. 8. 13	21. 24. 36	33. 51. 31				
1	Canada and		71 41	Call Call	100				
29	Pollux.		49. 47. 25	47- 59- 58					
30	- CI	37. 25. 1	35. 40. 59	33. 57. 38	32. 14. 56				
30	The Sun.	115. 30. 10	113. 51. 19	112. 12. 40	110. 34. 42				
			1	D					

[1	[106] SEPTEMBER 1768.							
種	Diffances of	of p's Cente	r from Stars,	and from G	weit of her.			
S.VEC	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.			
1	a Pegafi.	51.56.11	53. 38. 54	55. 21. 39				
2		65. 37. 29	23. 44. 21	25. 27. 52	27. 11. 26			
3 4	a Arietis.	35. 48 40 49. 28. 28	37. 31. 46		40. 57. 29			
4 5 6 7 8	Aldeba- ran.	18. 17. 7 30. 54. 0 43. 46. 29. 56. 34. 2 69. 12. 18	19. 48 50 32. 30. 24 45. 22. 52 58. 9. 22 70. 46. 24	34. 6. 55 46. 59. 8 59. 44. 33	48. 35. 17			
9 14 15 16 17 18	The Sun,	58. 57. 58 69. 49. 1	71. 10. 56	61. 40. 9	52, 13, 42			
19 20 21	72.10	80. 49. 4 92. 2. 37 103. 34. 22 115. 28. 27	82. 12. 25 93. 27. 59 105. 2. 19 116. 59. 29	83. 36. 0 94. 53. 40 106. 30. 38 118. 30. 55	96. 19. 38 107. 59. 18 120. 2. 43			
	Spica 収	68. 24. 42 80. 57. 0		71. 30. 51 84. 8. 29				
21 22 23	Antares.	48, 13, 25 61, 35, 20 75, 25, 33	49. 52. 8 63. 17. 34	65. 0. 14	66, 43, 20			
23 24 25	3 Capri- corni.	20. 45. 55 34. 59. 39 49. 39. 53	- 40	24. 16, 26 38, 37, 34	26. 2.27 40.27. 6			
25 26 27	«Aquil».	54. 58. 30 67. 42. 26 80. 58. 50	56, 31, 1 6g, 20, 41	58. 4. 39 70. 59. 22				
27 28 29 30	a Pegafi.	33. 11. 2 47. 2. 34 61. 12. 42 75. 16, 52	34. 52. 22 48. 48. 32 62. 58. 52	36. 34. 44 50. 34. 39 64. 44. 53	38. 17. 58 52. 20. 55 66. 30. 44			
30	a Arietis.		33- 34- 24	35. 20. 42	37. 6.45			

1	SEPTEMBER 1768. [107]							
	Diffances of D's Center from Stars, and from @ welt of her.							
Da	Stars	12 Hours,	15 Hours.	18 Hours.	21 Hours.			
S.	Names.	0 / 11	0 1 11	0 1 11	0 1 11			
-1		58. 47. 10	60. 29. 53	62. 12. 31	63.55. 4			
2	a Arietis.	28. 55. 0 42. 40. 5	30. 38. 32		34. 5. 24 47. 46. 41			
4 56 78	Aldeba- ran.	24, 30, 34 37, 20, 12 50, 11, 20 62, 54, 27 75, 27, 41	26. 5.55. 38.56.50 51.47.13 64.29.9 77. 1.4	27. 41. 41 40. 33. 26 53. 22. 58 66. 3. 41 78. 34. 18	29. 17. 44 42. 9. 59 54. 58. 34 67. 38. 4 80. 7. 21			
14 15 16 17 18 19 20	The Sun.	42, 49, 10 53, 34, 27, 64, 22, 41 75, 17, 39, 86, 23, 52 97, 45, 55, 109, 28, 21	54 55 14 65 44 5 76 40 13 87 48 9 99 12 32	67. 5.36 78. 2.58 89. 12. 42	57. 37. 0 68, 27. 15 79. 25. 55 90. 37. 32 102. 6, 45			
19	Spica ng	74. 38. 14 87. 21. 28	76. 12. 25	77. 46. 56	79. 21. 48			
20 21 22	Antares.	41. 42. 37. 54. 50. 52 68. 26. 54	43. 19. 44 56. 31. 19 70. 10. 54	58, 12, 13	46. 35. 7 59. 53. 33 73. 40. 13			
23	3 Capricorni.	27. 48. 58 42. 17. 1	29. 35. 58 44. 7. 16	31. 23. 25 45. 57. 50	33. 11. 19 47. 48. 43			
25	a Aquilæ.	61. 14. 34 74. 17. 51			66. 4.38 79.18. 6			
27 28 29	a Pegafi.	40. 1. 55 54. 7. 20 68. 16. 26		43. 31. 29 57. 40. 5 71. 47. 8	45. 16. 52 59. 26, 24 73. 32. 7			
30	a Arietis.	38. 52. 33	40. 38. 5	42. 23. 20	44. 8. 18			

108] SEPTEMBER 1768.

Configurations of the SATELLITES of JUPITER at 7 o' th' Clock in the Evening.

2	2		
2	2	1 0	·3 1. 4.
3 2 • 4.	3 2 4 4 9 1. 3. 3. 4 1. 6 1. 3. 4 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1	4	4 4
4	4	2 2 0	CONTRACTOR STORY
9	9	4 4 12 10	3.
9	9	5 1 . 3. 0	
9	9	6 4. 3. 0	.1 2.
9	9	7 4 3 2. 1. 0	The Part of the Pa
9	9	8 3.0 4 .2 0	The state of the s
11	11	9	
12 1	12 1		1, 3,
13 3 3.	13 3.	11 .1 0	1
14	14		Laborated States
15	15		
4. 16 1. ① 12 13 4. 17 18 2	17]	2. 1.	
17	17	15	The second second
18	18		-
19 4 • 2,0 3. 0 1. 20 1,0 3. 4 0 2. 21 4. 3 2.1. 0 22 4. 2 3 0 .1 23 4. 1. 0 2.3. 24 4 0 2.1 0 3. 25 4 2 0 2.1. 3 26 3 • 4 2 0 1. 27 3, 1 0 4 0 2. 28 1 • 3 2.3 0 1	19 4 • 2.0 20 1.0 3.	16 . 0	12 13
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16 . O	12 .3 4
21 4. 3 2.1. © 22 4. 2 3 ⊙ 1 23 4. 1. © 2.3. 24 4	21 4. 3 2.1. 0 22 4. 2 3 0 1 23 4. 1. 0 2 3. 24 4 4 0 2.1. 3 25 4 2 1 0 3. 26 3 4 2 0 1. 27 3, 1 0 4 0 2. 28 1 4 3 5, 0 4 29 2 3 0 1	16 1. 0 17 0 18 2 0	2: 1. 3. 4.
22 4. 2 3 0 .1 23 4. 1. 0 2.3. 24 4	22 4.	16 1. 0 17 0 18 2. 1 0 19 4 • 2.0 3. 0	2- 1. 3- 4- 3-4-
23 4. 1. ① 2·3· 24 ·4 ② 2·1· ② 3. 25 · · · · · · · · · · · · · · · · · · ·	23 4. 1. ① 2·3· 24 · 4 ② 2·1· 3. 1 ② 4. 3 26 3 ① 4 · 2 ② 1. 27 ② 3. 1 ② 4. 2. 28 1 ① 3. 3. 3 ② 4. 3 3. 3 ② 4. 3 3. 3 ② 4. 3 3. 3 ② 4. 3 3. 3 ② 4. 3 3. 3 ③ 4. 3 3. 3 ③ 4. 3 3. 3 ③ 4. 3 3. 3 ④ 4. 3 3. 3 ④ 4. 3 3. 3 ④ 4. 3 3. 3 ④ 4. 3 3. 3 ⑥ 4. 4 4. 4 4. 4 4. 4 4. 4 4.	16 1. 0 17 0 18 21 0 19 4 • 2.0 3. 0 20 1.0 5. 4. 0	2- 1- 3- 4- 3-4-
24	24 '4	16	2- 1- 3- 4- 3-4- 1- 2-
25 4 2. 1 ① 3. 26 3 • 4 2 ① 1. 27 3, 1 0 4 ① 2. 28 1 • 3 2. 0 4 29 • 2.3 ② 1 4	25 4 2 1	16	2- 1- 3- 4- 3-4- 1- 2-
26 3 •	26 3 · · · · · · · · · · · · · · · · · ·	16	2. f. 3. 4. 3.4. 1. 2. 1. 2. 3.4.
27 3, 1640 2. 28 1 • 3 2, 0 4	27 3, 1640 2, 28 10 3 5,0 4	16 1.	2. 1. 3. 4. 3.4. 1. 21
28 1 • -3 -3 -0 -4	28 1 • 43 3.0 4	16 1.	2. f. 3. 4. 3.4. 11. 21. 2.3. 3.4. 3.4. 3.4. 3.4. 3.4.
29 .2.3 🔘 .1	29 .2.3 🔘 .1	16 1. ① 17 ① 18 21 ② 19 4 • 2.0 3. ② 20 11.0 5. 4 ② 21 43 2.1. ② 22 43 ③ 23 4. 1. ③ 24 4 ② 25 4 3 ② 26 3 • .4 ② 26 3 • .4 ②	2. f. 3. 4. 3.4. 11. 21. 2.3. 3.4. 3.4. 3.4. 3.4. 3.4.
291	291	16 1.	2. 1. 3. 4. 3.4. 11. 2. 2.1. 3.4. 1. 2.3. 2.1. 3.
	10 302 4	16 1.	22 - 3 4 4 3 - 4 4 3 - 4 4 4 4 4 4 4 4 4 4
30 302		16 1.	2. f. 3. 4. 3.4. 11. 2. 2.1. 3.4. 1. 2.3. 3.4. 1. 2.4. 2.4

		OCTOBE	R 1768. [109]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H. / Last Quarter — 2, 11, 45 New Moon — 10, 7, 46
1 2 3 4 5	Sa. Su. M. Tu. W.	Remigius. 18th Sunday after Trinity.	First Quarter —18. 11. 23 Full Moon — 25. 5. 55 Last Quarter — 31. 23. 58 Other Phenomena. D.
6 7 8 9	Th. F. Sa. Su. M.	Faith. [St.Denys. 19th Sunday after Trinity. Oxf. and Cam. T. begin.	1. (**) H II 13h 38'. (** \pi II 21h 15'. 2. (**) A II 20h 49'. 3. (** \pi \pi \pi 35'.\diff.Lat. 25'.
11 12 13 14 15	Tu. W. Th. F. Sa.	Tranf. of K. Edw. Conf.	6. 6 1 9 diff. Lat. 24'.
16 17 18 19 20	Su. M. Tu. W. Th.	20th Sunday after Trinity. Etheldred, St. Luke.	
2I 22 23 24 25	F. Sa. Su. M. Tu.	21st Sunday after Trinity K.Geo.HI. Acces. Cris	29. h Stationary. Q λ ≃ diff. Lat. 26'. Q N m diff. Lat. 35'. Q n II 2 ^h 8'.
26 27 28 29 30	Th. F. Sa.	K. Geo. III. procl. 1760 St. Simon and St. Jude. 22d Sunday after Trinity	6 h 8h 55' diff. Lat.
31	M.	The state of the s	

TIO]	OCTO	BER	1768.	-	
Days of the Month.	Days of th Week,	Sun's Longitude.	Sun's Right Afc, in Time.	Declin. South.	Equat. of Time Sub.	7.0
4	Sa. Su. M. Tu.	6. 8. 47. 1 6. 9. 46. 10 6. 10. 45. 22 6. 11. 44. 35	12. 32. 16 12. 35. 54 12. 39. 32 12. 43. 11	3. 29. 12 3. 52. 30 4. 15. 46 4. 38. 58	10.53,6 11.11,8 11.29,7	18,6 18,2 17,9 17,4
September 1	W. Th. F. Sa. Su. M.	6. 12. 43. 52 6. 13. 43. 11 6. 14. 42. 32 6. 15. 41. 56 6. 16. 41. 22	12. 46. 50 12. 50. 29 12. 54. 9 12. 57. 50 13. 1. 30 13. 5. 12	5. 2. 7 5. 25. 13 5. 48. 14 6. 11. 11 6. 34. 3 6. 56. 50	12. 4,2 12.20,9 12.37.0 12.52,8	17,1 16,7 16,1 15,8 15,2
11 12 13 14 15	Tu. W. Th. F. Sa.	6. 17. 40. 50 6. 18. 40. 20 6. 19. 39. 52 6. 20. 39. 26 6. 21. 39. 2 6. 22. 38. 40	13. 8. 53 13. 12. 36 13. 16. 18 13. 20. 1	7. 19. 31 7. 42. 7 8. 4. 36 8. 26. 59 8. 49. 13	13.22,7 13.37,0 13.50,8 14. 4,1	14,7 14,3 13,8 13,3 12,6
16 17 18 19	Su. M. Tu. W.	6. 23. 38. 19 6. 24. 38. 0 6. 25. 37. 44 6. 26. 37. 28	13. 27. 30 13. 31. 15 13. 35. 0 13. 38. 47	9. 11. 21 9. 33. 20 9. 55. 11 10. 16. 53	14.28,9 14.40,4 14.51,3 15. 1,7	12,2 11,5 10,9 10,4 9,8
21 22 23 24	F. Sa. Su. M.	6. 27. 37. 14 6. 28. 37. 2 6. 29. 36. 51 7. 0. 36. 43 7. 1. 36. 37	13. 50. 9 13. 53. 58 13. 57. 47	10. 59. 48 11. 21. 1 11. 42. 4 12. 2. 56	15.20,7 15.29,1 15.36,9 15.44,0	9,2 8,4 7,8 7,1
25 26 27 28 29	W. Th. F. Sa.	7. 2. 36. 32 7. 3. 36. 29 7. 4. 36. 27 7. 5. 36. 28 7. 6. 36. 31	14. 1. 37 14. 5. 28 14. 9. 20 14. 13. 12	12. 23. 37 12. 44. 6 13. 4. 24 13. 24. 29 13. 44. 22	15.50,3 15.56,0 16. 0,9 16. 5,0	4,1
30	Su. M.	7. 8. 36. 44	14. 20. 59	14. 4. 1	16.11,0	2,6 1,7 1,0

	0	CTO	BEI	R 1768.	[111]	
Days of the Month.	meter of	Time of D° paffing the Meridian.	Fime of Do Hourly passing the Meridian. Of the Sun.		Place of the Moon's Node,	
C	, ,,	1 11	, ,,	W 21-200		
1 7 13 19 25	16. 3.0 16. 4.6 16. 6,3 16. 7,9 16. 9,6	1. 5,1	2, 27, 9 2, 28, 5 2, 28, 9 2, 29, 3 2, 29, 8	9. 999902 9. 999169 9. 998425 9. 997676 9. 996953	9. 7. 38 9. 7. 19 9. 7. 0 9. 6. 41 9. 6. 22	

The Eclipses of Juriter's Satellites will not be visible this Month, Juriter being too near the Sun.

TI.	[112] OCTOBER 1768.						
200		Heliocen-	Geocen-	Page 100 Page 100	200	Paffage	
			tric Lon-		Decli-	over	
9	gitude.	tude.	gitude.	titude.	nation.	Merid.	
S	0	-	0	September 2	5000		
	5 0 /	0 1	s 0 1	0 1	0 /	h /	
-	9	M	ERCU	RY.	Strange .	1490	
2	311.70	-	J. C. C. LL.	-	Pre-	200	
1	7. 7. 43	0. 59 N	6. 17. 35		6. 37 S	0. 33	
7	7. 25. 6 8. 11. 42	1. 85	6. 27. 11		10, 50	0.46	
13	8. 28. 15	3. 4	7. 6. 21		14. 40	0. 58	
25	9. 15. 33	6. 3	7. 23. 25		20. 49	I. 20	
- 71	3, -1, 33	-	1 1 - 3 - 5		STATE OF THE PARTY OF		
	4	11 3-3	VENU	S.	5,644	-50	
12	7. 10, 26	1.54N	6. 22. 0	0. 50 N	7. 48 5	0.50	
7	7. 20. 1	1, 25	6. 29. 28	0.37	10, 43	0.56	
13	7. 29. 35 8. 9. 7	0.53	7. 6.56		13. 28	1. 3	
19	8. 9. 7	0.19	7. 14. 24		16. 2	1. 9	
25	8. 18. 38	o. 14 S	7.21.52	o. 65	18. 21	1. 16	
			MAR	S.	829	d 19h.	
I	0. 18. 46	0. 54 8	1, 10, 30	2. 44 S	12. 24 N	14. 2	
7	0. 22. 22	0.48	1. 9.16		12. 14	13.35	
13	0. 25. 55	0.42	1. 7.39		11. 58	13. 6	
	0. 29. 27	0. 35		1.56	11. 37	12, 35	
251	1. 2.56	0, 29	I. 3.40	1, 33	11. 18	12. 4	
	Was !	J	UPIT	ER.	8 2	5d 18h.	
I	7. 1.28	1. 13 N	6, 28, 0		9. 49 5	1. 13	
7	7. 1.56	1.13	6. 29. 17	THE RESERVE OF THE PARTY OF THE	10. 16	0.56	
13	7. 2.23	1, 12	7. 0.34		10, 44	0, 39	
19	7. 2.51	I. 12	7. 1. 53		11. 11	0, 21	
25	7. 3. 18	I. I2	7. 3. 13	1. 0	11.38	0. 3	
P		S	ATUR	N.	01	od ch.	
1	3. 10. 59	0. 27 5	3. 17. 17	0. 27 51	21. 54 N	18. 39	
7	3. 11. 13	0. 27	3. 17. 34		21. 53	18. 19	
13	3. 11. 26	0. 26	3. 17. 45		21. 52	17. 58	
19	3. 11. 40	0. 25	3. 17. 55 3. 18. 1		21.51	17.36	
25			3. 18. 1		21.50	17. 13	

	OCTOBER 1768. [113]						
Days of the Month.	Days of the Weck.	gitude at Noon.	Moon's Longitude at Midnight.	titude at Noon.	Latitude at Midn.		
*I 2 3 4 5	Sa. Su. M. Tu. W.	2. 19. 49. 40 3. 3. 38. 18 3. 17. 3. 39 4. 0. 8. 31 4. 12. 55. 51	3. 23. 38. 31 4. 6. 34. 13	0, 20, 58 0, 49, 50 S 1, 56, 12	0.56.53 N 0.14.43 S 1.23.49 2.26.46 3.20.59		
789	Th. F. Sa. Su. M.	4. 25. 29. 0 5. 7. 50. 48 5. 20. 3. 26 6. 2. 8. 50 6. 14. 8. 22	5. 13. 58. 7 5. 26. 6. 55 6. 8. 9. 16	4. 21. 58 4. 47. 6 4. 58. 58	4. 4.36 4.36.10 4.54.42 4.59.53 4.51.50		
11 12 13 14 15	Tu. W. Th. F. Sa.	6. 26. 3. 9 7. 7. 54. 27 7. 19. 43. 53 8. 1. 33. 36 8. 13. 26. 38	7. 13. 49. 16 7. 25. 38. 32 8. 7. 29. 29	4. 16. 5 3. 38. 12 2. 50. 47	4.31. 0 3.58.28 3.15.35 2.24. 4 1.25:44		
16 17 18 19 20	Su. M. Tu. W. Th.	9. 7. 37. 28 9. 20. 4. 37 10. 2. 52. 37	9. 1. 30. 13 9. 13. 48. 43 9. 26. 25. 41 10. 9. 25. 59 10. 22. 53. 33	o. 9.50 N 1.15.18 2.18.51	0.22.44 S 0.42.36 N 1.47.30 2.48.57 3.43.12		
21 22 23 24 25	F. Sa. Su. M. Tu.	11. 14. 1. 4 11. 28. 42. 0 0. 13. 45. 55	11. 6. 51. 6 11. 21. 18. 10 0. 6. 11. 32 0. 21. 23. 52 1. 6. 44. 37	4. 42. 29 5. 1. 26 5. 0. 21	4.26.21 4.54.19 5. 3.33 4.51.49 4.19. 5		
27	W. Th. F. Sa. Su.	1. 14. 24. 35 1. 29. 36. 14 2. 14. 29. 9 2. 28. 57. 15 3. 12. 57. 31	2. 7. 5.29 2.21.46.35 3. 6. 0.52	2. 56. 38 1. 46. 40 0. 31. 23 N	3 27.53 2.22.36 1. 9.19 N o. 6.24 S 1.19.27		
31	M.	3. 26. 30, 13	4. 3. 6.59	1. 53. 43	2.25.51		

Q,

[114] O.C.	TOBE	R 17	68.	-
H D D'SP			D's De-1	
Name of Age of			lination	lination
E C T C T	d. Noon.	Midn.	t Noon.	t Midn.
P. E. B. C. P.	0 1	0 1	0 /	0
	-0.0	04 -0	1	1
1 Sa. 22 17. 2 2 Su. 23 18.				24, 22 N
3 M, 24 19.				20. 1
4 Tu. 25 20.				16. 17
5 W. 26 20.	49 134-33	140. 36	14. 9	11.53
6 Th. 27 21.	33 146. 29	152.14	9.31	7. 5
7 F. 28 22.	15 157.53	163.27	4. 35 N	2. 4 N
THE RESIDENCE OF THE PROPERTY OF THE PERSON NAMED IN COLUMN 1		174. 29	0. 27 S 5. 26	2. 57 S
9 Su. 30 23.	191. 3	185.30	CAN PERSON AND PROPERTY OF	7.50
C 10 10 10 10 10 10 10 10 10 10 10 10 10	-		-	4446
11 Tu. 2 0.				16. 25
THE PERSON NAMED IN COLUMN	6 214. 5	220, 6		19. 48
14 F. 5 2.	40 238, 49		A COLUMN TWO IS NOT THE OWNER.	23. 58
	30 251-47	258. 22		24, 28
16 Su. 17 4.	21 264.59	271. 38	24. 18	23.50
17 M. 8 5.	13 278.17		23. 5	22, 3
18 Tu. 9 6.	5 291, 32	298. 5	20. 43	19. 8
	53 304.37	311. 7	17. 17	15. 12
7.	31 / 34	324. 0	12.54	10, 23
	32 330. 27	336. 56	7.42	4. 53 8
	22 343, 28	350. 5	1. 57 S	1. 3N
23 Su. 14 10.	9 10. 42	3.40	4. 5 N 10. 3	7. 6
25 Tu. 16 12.		32. 55	15. 29	17. 52
26 W 22	10 10 10	1000	-	72 7 7 70
	10 40.43	48, 40	19. 56	21. 39
28 F. 19 15.	16 72.55	80. 58	24. 20	24. 22
29 Sa. 20 16.	16 88.51	96.33	23.59	23. 14
30 Su. 21 17	13 104, 1	111. 12	22. 7	20. 42
21 M. 122 18.	5 1118. 9	124. 50	19. 2	17. 8
Control of the last of the las	NAME OF A LOCAL POPULAR	E-01-2	TA DESCRIPTION	12/17/19

LIA DEFERRACE A						
OCTOBER 1768. [115]						
Days of Week Days of Mont	Semidi. Dat Noon.	Semidr. D at Mid- night.	D at	Hor. Par. Dat Midnight.	Proport.	Proport. gar. at Mi
the the	1 11	1 11	1-11	1-11-	Lo-	Lo-
1 Sa. 2 Su. 3 M. 4 Tu. 5 W.	16. 8 15. 55 15. 42 15. 29 15. 19	16. 2 15. 48 15. 35 15. 24 15. 14	59. 13 58. 24 57. 36 56. 51 56. 11	58. 49 58. 0 57. 13 56. 31 55. 53	4828 4889 4949 5005 5056	4918 4977 5031
6 Th. 7 F. 8 Sa. 9 Su. 10 M.	15. 9 15. 1 14. 55 14. 50 14. 47	15. 5 14. 58 14. 52 14. 48 14. 45	55. 37 55. 8 54. 45 54. 26 54. 13	55. 21 54. 56 54. 35 54. 19 54. 9	5100 5138 5169 5194 5211	5154 5182 5203
11 Tu. 12 W. 13 Th. 14 F. 15 Sa.	14. 44 14. 44 14. 44 14. 47 14. 52	14. 44 14. 44 14. 45 14. 49 14. 55	54. 6 54. 3 54. 6 54. 15 54. 33	54· 4 54· 3 54· 9 54· 23 54· 44		5225
16 Su. 17 M. 18 Tu. 19 W. 20 Th.	14. 59 15. 8 15. 19 15. 33 15. 48	15. 3 15. 13 15. 26 15. 40 15. 56	54. 58 55. 31 56. 13 57. 3 57. 58	55. 14 55. 51 56. 37 57. 31 58. 27	5054 4990	5130 5082 5023 4955 4885
21 F. 22 Sa. 23 Su. 24 M. 25 Tu.	16. 4 16. 19 16. 32 16. 41 16. 46	16. 11 16. 26 16. 37 16. 44 16. 46	58. 56 59. 52 60. 40 61. 15 61. 31	59. 24 60, 18 60, 59 61, 25 61, 33	4781 4723 4682	4815 4750 4750 4670 4660
26 W. 27 Th. 28 F. 29 Sa. 30 Su.	16. 45 16. 39 16. 29 16. 15 16. 0	16. 43 16. 35 16. 22 16. 8 15. 52	61. 29 61. 7 60. 29 59. 39 58. 43	61.21 60.50 60.5 59.12 58.15	4691 4736 4797	4675 4711 4765 4830 4900
31 M.	15.45	15.37	57-47	1 57.20	14934	14968

T	[6]	OCTO	BER	1768.	
12	Dittances o	of p's Cente	r from Stars,	and from @	east of her
Days	Stars	Noon.	3 Hours.	6 Hours.	9 Hours.
\$11.3 13.3	Names.	0 1 11	0 / 11	0 / //	-0 1 11
1 2	Regulus.	66. 47. 9 52. 58. 39	65. 2.14 51.16.49		61. 33. 34 47. 54. 16
1 2	STORY IN	108. 56. 55	107. 19. 30 94. 33. 22	92. 59. 13	91.25.26
3	The Sun.	83. 41. 45 71. 36. 43	70. 7. 28	68, 38, 30	79. 7.27
567	Water Street	59. 50. 37 48. 20. 43		45. 30. 31	55.30, 8 44. 5.45
12		37. 5. 0 83. 56. 51 73. 30. 38	82. 38. 18 72. 12. 51		
14		63. 13. 13	61. 56. 58	60. 41. 1	59. 25. 21
16	corni.	35. 46. 50	34. 16. 5	32.45. 9	31. 14. 3
18	a Pegafi.	73. 35. 35 61. 34. 54 49. 21. 34	60. 3.49	58. 32. 34	57. 1. 8
20		37. 3. 12	35. 31. 34	34. 0. 18	32. 29. 30
21	a Ariens.	64, 19, 33	48. 26. 54	46. 39. 7	44. 50. 58
	Aldeba-	68. 34. 50 53. 45. 41	51. 53. 35	50. 1. 24	48. 9. 8
25	A TO A	38, 47, 43	3		The state of
25	Pollux.	65. 21. 44 50. 22. 16 35. 46. 32	48. 31. 11		
28	m, by 119	72. 7. 45	70. 17. 49		
30	Regulus.	43. 40. 38 30. 12. 16	55. 53. 19 41. 57. 52 28. 33. 27	40, 15, 36	38. 33. 49
N	- Incal	17. 19. 9	No. of Contract of	1 1 2 2 2	The late of the
31	The Sun.	102. 6. 7	100. 33. 52	99. 2. 1	97. 30. 33

В

1		OCT	OBER	1768.	[117]
PO	Dittances	of D's Cente	er from Stars,	, and from G	eaft of her.
Days	Stars Names.	12 Hours.	15 Hours.	18 Hours.	21 Hours.
	150	0 1 11	0 1 11	0 , 11	0 1 11
1 2	Regulus.	59. 49. 48 46. 13. 34	58. 6. 26	56. 23. 28	54. 40. 52
1 2		89. 52. 0	88. 18. 56	86. 46. 12	85. 13. 48
3 4	The Sun.	77. 36. 40 65. 41. 25	64. 13. 19	62. 45. 29	
5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		52. 37. 40 41. 16. 49	39. 52. 40	THE RESERVE THE PERSON NAMED IN
12 13 14	« Aquilæ.	78. 43. 0 68. 20. 27 58. 9. 59		76. 6. 35 65. 46. 24	
14	β Capri- corni.	53- 44- 53 41. 48. 15	52. 15. 40 40. 18. 8	50. 46. 21 38. 47. 51	
16 16	AND THE REAL PROPERTY.	79. 32. 48	78. 4. 2	76. 35. 4	75. 5. 55
18	z Pegafi.	67. 37. 20 55. 29. 32 43. 12. 0	53- 57- 44	52.25.49	63. 5. 48 50. 53. 45 38. 35. 7
20 21	a Arietis.		69. 29. 28		CONTRACTOR OF THE PARTY OF THE PARTY.
22	a rificiis.	57. 20. 11	4 1 10	72. 14. 21	7414
	Aldeba- ran.	61. 12. 15		57. 29. 22 42. 32. 6	55. 37. 38
25	100	31. 21. 31	29. 30. 56	27. 40. 55	25. 51. 36
26	Pollux.	57. 49. 58 43. 0. 32	41. 11. 14	54 5. 30 39. 22. 26	37. 34. 11
28 29 30 31	Regulus.	64. 50. 25 50. 36. 31 36. 52. 31 23. 40. 31	48. 51. 50		31. 51. 34
30	The Sun.	121. 5.42	119. 28. 23	117. 51. 29	116. 15. 1
31	ME HA	95. 59. 30	94. 28. 51	92. 58. 35	91. 28. 40

Ē	[118] OCTOBER 1768.								
D	istances of	D's Center i			west of her.				
H	Stars	Noon.	3 Hours.	6 Hours.	9 Hours.				
lays.	Names.	0 1 11	0 7 11	0 1 1	0 1 11				
	a Arietis.	45. 52. 58	47. 37. 20	49. 21. 22	51. 5- 5				
3 4 5 6	Aldeba- ran.	27. 39. 16 40. 41. 8 53. 33. 45 66. 12. 24 78. 37. 39	29. 17. 2 42. 18. 25 55. 9. 22 67. 46. 15		45. 32. 25 58. 19. 57				
8	Pollux.	36. 53. 7 48. 59. 13 60. 59. 51	38. 24. 5 50. 29. 37 62. 29. 31	51. 59. 56 63. 59. 5	65. 28. 35				
14 15 16 17 18 19 20 21	The Sun,	39. 59. 38 50. 49. 33 61. 48. 19 72. 59. 28 84. 26. 58 96. 14. 51 108. 27. 0 121. 6. 5	74-24-25 85-54-14 97-44-59	53. 33. 18 64. 34. 47 75. 49. 38 87. 21. 51 99. 15. 31	54. 55. 23 55. 53. 21 77. 15. 8 88. 49. 47				
19	I ATHUTUS.	56. 42. 36 69. 56. 38	58. 20. 27	59. 58. 42	61. 37. 21				
21 22	BCapricorni	15. 17. 55 28. 54. 10 43. 2. 38	30. 38. 36	18. 38. 38	20, 19, 51				
20	a Aquilæ	49. 30. 40 61. 39. 18 74. 41. 54	63. 14. 46	52. 25. 59	53. 55. 33				
24 26 27	z Pegali.	27. 2. 17 40. 34. 21 54. 58. 1 69. 32. 15	42. 20. 40	30. 15. 18 44. 7. 37 58. 36. 38	45. 55. 5				
2 2 2	2 Arietis	55. I. 2	42. 26. 3	29. 37. 5t 44. 15. 21	46. 3. 52				
2003	Alueba-	36. 38.	38. 18. 4	26. 30. 30 39. 59. 10 53. 13. 1	28. 11. 52 41. 39. 34 54. 51. 4				

	OCTO	BER	(11768.)	[tag]
Diftances of	The state of the last	from Stars, a	the state of the later of the l	well of her.
Stars	12 Hours.	15 Flours.	18 Hours.	21 Hours
Names.	0 1 H	0 1 11	-0 r n	0 1 11
1 a Arietis.	52. 48. 28	the same		
17 -17	5 TA 14 .UV	W	7 7 7 7	
2 Aldoha	21. 11. 29 34. 10. 40	22. 47. 38 35. 48. 27	24. 24. 26 37. 26. 7	26. 1. 42
Addeba-	47. 9. 9	48. 45. 37	50, 21, 53	39. 3. 41 51. 57. 55
a ran.	59- 54- 54	61. 29. 36	63. 4. 5	64. 38. 21
5 = 15 100	72. 26. 36	73. 59. 39	75. 32. 30	77. 5. 10
6	12 6 10	14 00 00	45 69 5	47 29 45
7 Pollux.	42. 56. 42 55. 0. 16	44. 27. 27 56. 30. 18	45. 58. 7 58. 0. 15	47. 28. 42
8	56. 57. 59	15 6 10	17 30 1 200	23. 20.
-	100000	-	100000	-
14 - 77 -	45-23-37	46. 44. 55		49- 27- 53
16	56. 17. 37 67. 22. 6		59. 2. 37 70. 10. 18	60. 25. 22
17 The Sun.	78. 40. 54		81. 33. 20	71. 34. 46
18	90. 18. 4		93. 15. 43	
19	102. 17. 44	103. 49. 26	105. 21. 33	106. 54. 4
20	114. 43. 3	116. 18. 9	117. 53. 41	119. 29. 40
18 1	50. 15. 2	51. 51. 22	53. 28. 4	55. 5. 9
Antares.	63. 16. 23			68. 15. 57
2		Red Spiles	76000000	THE RESERVE
20 B Capri-	22. I. 39		State of the late	
21 corni.	35.54.45	37.41. 4	39. 27. 49	41. 15. 1
22 Aquila	55. 26. 16	56.58. 4	58. 30. 53	60. 4. 39
23 a Aquilæ.	68. 5.34	69. 43. 48	71. 22. 38	73. 2. 0
1		THE SECTION AND ADDRESS OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN CO		
24 . D	33. 37. 29			
25 a Pegafi.	62, 15, 17			
	02. 15. 17	4. 39	65. 53. 57	67. 43. 10
27 Arietis.	33. 18. 21	35. 8. 25	36. 58. 17	38. 47. 56
27 2 Arietis.	47. 52. 4			
	20 50 50	21 24 20	20 10 21	- CONTRACTOR
30 Aldeba-	43. 19. 36	31. 34. 32		
31 ran.	56. 28. 3	58. 5. 30		
and the same of		-		, ,,,

120 OCTOBER 1768.

JUPITER'S Satellites will not be visible this Month, being too near the Sun.

-	-	NOVEMBI	R 1968. [121]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H.' New Moon — 9. 2. 1
1 2 3 4 5	Tu. W. Th. F. Sa.	All-Saints. [1 ret. On Morrow of All-Souls, Powder Plot 1605.	Other Phenomena.
6 78 910	Su. M. Tu. W. Th.	23dSu. after Tr. Leonard. D. of Cum. b. [Term beg.	2. C 7 St. 7h 4f. 11. C \$ 1h 30'. diff. Lat. 30'. C 9 5h35'.diff.Lat.57'.
11 12 13 14 15	F. Sa. Sa. M. Tu.	On Morrow of S. Martin, 24th Sunday after Trinity.	14. 9 Stationary. 15. 9 θ Ophiuchi diff. Lat. 48'.
16 17 18 19 20	W. Th. F. Sa.	Hugh, Bp. of Lincoln, In 8 Days of St. Martin, [3 ret. 25th Su. after Tr. Edm.	25. (H II 8h 26'. (n II 12h 29'. (μ II 15h 34'.
21 22 23 24 25	M. Tu. W. Th. F.	Cecilia. S. Clement. [Days of S. Mar. 4 ret. D. of Gl. bor. Cath. In 15	26. (\$\in\$ 113h 39'. \$\in\$ Stationary. (\$\in\$ 17h 7'. diff. Lat. 52'. 27. Q \$\in\$ \$\in\$ diff. Lat. 40'. 29. (\$\in\$ \$\in\$ 0h 7'.
26 27 28 29 30	Sa. Su. M. Tu. W.	Advent Sunday. Term endse [born 1719. St. And. Prs. Dow. Wal.	(σ S, 4h 56'. (π S, 14h 19'.
1			Committee of the land

[122]	NOVE	MBE	R 17	68.	
Days of Week Days of Month	Sun's Longitude,	Sun's Right Afc- in Time.	Declin.	Equat. of Time Sub.	Diff.
the	3 0 / //	h / //	0 1 11	1 "	11=
1 Tu.	7. 9. 36. 54 7. 10. 37. 5	14. 32. 46	15. 1.37	16.13,9	0,2
3 Th. 4 F. 5 Sa.	7. 11. 37. 20 7. 12. 37. 36 7. 13. 37. 54	14. 40. 42	15. 38. 49	16.11,5	1,6
6 Su. 7 M.	7. 14. 38. 15	14. 52. 41	16. 32. 40	16. 1,7	3,3 4,1 5,0
8 Tu. 9 W. 10 Th.	7. 16. 39. 1 7. 17. 39. 26 7. 18. 39. 54	14. 56. 43 15. 0. 45 15. 4. 48	16. 50. 4 17. 7. 11 17. 24. 0	15.56,7 15.50,9 15.44,3	5,8
11 F. 12 Sa. 13 Su.	7. 19. 40. 24 7. 20. 40. 54 7. 21. 41. 27	15. 12. 57	17. 56. 43	15.28,3	7,6 8,4 9,2
14 M. 15 Tu.	7. 22. 42. 0 7. 23. 42. 35	15. 21. 10	18. 28. 12	15. 9,1	10,0
16 W. 17 Th. 18 F.	7. 24. 43. 11 7. 25. 43. 49 7. 26. 44. 28	15. 33. 34	19. 12. 56	14.34,1	12,5 13,3 14,1
19 Sa. 20 Su.	7. 27- 45. 7			14. 6,7	14,9
21 M. 22 Tu. 23 W. 24 Th. 25 F.	7. 29. 46. 29 8. 0. 47. 11 8. 1. 47. 56 8. 2. 48. 41 8. 3. 49. 28	15. 54. 32 15. 58. 46 16. 3. 0	20, 20, 27, 20, 32, 51	13.19,7 13. 2,5 12.44,5	15,7 16,4 17,2 18,0 18,7
26 Sa. 27 Su. 28 M. 29 Fu. 30 W.	8. 4. 50. 16 8. 5. 51. 5 8. 6. 51. 56 8. 7. 52. 48	16. 11. 32 16. 15. 48 16. 20. 6 16. 24. 2. 16. 28. 43	21. 7. 44 21. 18. 39 21. 29. 1	12, 6,3 11,46,1 11,25,2	19,5
					23,0

NOVEMBER 1768. 128 Hourly Semidia- Time of Do Logarithm Place of Motion meter of passing the the Sun. Meridian. the Moon's of the Sun's of the Distance. Node. Sun. 1. 11: 16. 11, 3 9,995179 1. 6, 9 30,4 5.59 16. 12, 7 2. 30,8 ı, 9, 995561 5: 40 16. 14,0 2. 31, 3 1. 8, 4 9,994971 5. 21 16. 15,2 2. 31, 7 1. 9, 0 9,994417 16. 16, 3 2. 32, 11

The Eclipses of JUPITER's Satellites will not be visible this Month, JUPITER being too near the SUN.

12	4]	N	OV	E	MB	1	RY	17681	
D	tric	Lon-	Helioce tric La		tric Lo	111	Geocen tric La titude:	Decuna	over
ays.	gitu		tude.	100	gitude	-		0 2 1	Merid.
		0 /	0 /	100	. 0	10	0 1	1001	1000
511		44	1	14	700 193	4	144-54	inf. o	-11 to
	10, 2				8. 2.	13	2. 43	24.25	1. 32
13	11. 2	5. 48	5. 22	3	8. I2.	3	2, 16	24.31	1.24
	2.		2. 15	N	8, 4.	10	1. ol	23. 6 V 20. 2	0. 2
2	30	11	12011	V	EN	U	S	4 6	TA
	8.2	9. 43	0.5					S 20. 42 S	
13	9. 1	9. 12 8. 41			8. 8.			23. 36	1. 32
19	9.2	8. 10	2. 20	100	8. 22.	55	1. 9	24. 26	1.47
93	10.	7- 39	2. 43	100	9. 0.	15	100	24.49	11.54
38	社	5 . 1	High a	100	MAI		Children	-94 16	WT DE
7		6. 58 0. 24			0. 29.	20	0. 45	10. 541	10.56
13	1. 1	3. 47	0. 8	13	0. 28.	14	0. 25	10. 28	10. 26
19	I. I	7. 0	0. 2	N	0. 27.	54	0. 6	N 10. 26	9. 58
	-		J	U	PIT	Miles	30-7-10-5		- 161 00
N.		3. 50			while the little	44		VII2. 95	D 20
13	7-	4. 17		•	7. 7.	20	I. 0 I. 0	12. 36	23. 2I 23. I
19	7.	5. 12	1. 11			38 53	I. I	13, 26	22. 41
1	2	3 3	1 62		ATU		-	1 07	18 34
-1	1 2 1	2. 0	1-500	4	T 2 (6)		100 000	5 21. 49 1	VI16, 16
17	3. 1	2, 22	0, 24	-	3. 17.	58	0. 25	21.51	16. 22
13		2. 36			3. 17.		0. 25		15.57
25			0. 22		3. 17.			21.55	15. 5

		NOVE	MBE	2 7 1768	[125]
Days of the	Days of the Week.	Moon's Lon- gitude at Noon.	gitude at Midnight.	Noon A	Noom's atitude at lidnight.
3 4	Tu. W. Th. F. Sa.	4. 9. 37. 46 4. 22. 23. 44 5. 4. 52. 7 5. 17. 6. 46 5. 29. 11. 25	4. 28. 39. 52 5. 11. 1. 0 5. 23. 10. 5	4. 26. 19 4	8. 12 41. 4 0. 34
6 78 9	Su. M. Tu. W. Th.	6. 11. 9. 11 6. 23. 2. 38 7. 4. 53. 56 7. 16. 44. 38	6. 17. 6. 21	5. 4. 26 4 4. 50. 25 4 4. 23. 52 4 3. 45. 54 3	. 59. 0 . 38. 40 . 6. 14 . 23. 4
11 12 13 14	F. Sa. Su. M. Tu.	8. 10. 30. 42 8. 22. 29. 50 9. 4. 36. 4 9. 16. 52. 37	8. 16. 29. 32 8. 28. 31. 53 9. 10. 42. 50 9. 23. 5. 48 10. 5. 44. 26	2. 2. 3 1 1. 0. 13 S 0 0. 5. 7 N 0 1. 11. 14	31. 45 27. 48 S
16 17 18 19	W. Th. F. Sa. Su.	10. 12. 10. 53 10. 25. 20. 5 11. 8. 53. 34	10, 18, 42, 35 11, 2, 3, 39 11, 15, 50, 12 0, 0, 3, 2 0, 14, 40, 35	3. 14. 14 3 4. 4. 35 4 4. 43. 6 4 5. 6. 18 5	. 40. 30 . 25. 36 . 56. 50 . 11. 12
21 22 23 24	M. Tu. W. Th. F.	0. 22. 7. 17 1. 7. 12. 23 1. 22. 25. 13 2. 7. 35. 31	2. 29. 38. 16 1. 14. 48. 31 2. 0. 1. 18	4. 55. 50 4. 19. 58 3. 25. 26 2. 16. 29	, 40, 22 54, 48 52, 29 38, 22 18, 48N
26 27 28 29	Sa. Su. M. Tu. V.	3. 7. 10. 27 3. 21. 21. 53	3, 14, 19, 32 3, 28, 17, 13 4, 11, 47, 11 4, 24, 51, 9	0, 21, 45 I, 1, 37, 31 2, 2, 45, 54 3, 3, 43, 0 4,	0. 3 S 12. 56 16. 0 6. 43 43. 40
THE P	W.	4.70 1224	TEAT (1200 E	7 1

122	1	NOVE	MBE	R 17	68.	
Days of Month	Days of Week	Sun's Longitude.	Sun's Right Afe- in Time.	Declin.	Equat. of Time Sub.	Diff.
the	the	2 0 1 11	h 7 //	0 1 11	1 "	"
	Tu. W.	7. 9. 36. 54 7. 10. 37. 5	14. 32. 46	15. 1.37	16.13,9	0,2
4	Thi F. Sa.	7. 11. 37. 20 7. 12. 37. 36	14. 40. 42	15. 38. 49	16.11,5	1,6
116:	Su.	7. 13. 37. 54	-		Section of the	3.3
8	M. Tu. W.	7. 15. 38. 37. 7. 16. 39. 1	14. 56. 43	16.50. 4	15.56,7	4,1 5,0 5,8
10	Th.	7. 17. 39. 26 7. 18. 39. 54	15. 4.48	17. 24. 0	15.44,3	7,6
12 .	F. Sa.	7. 19. 40. 24	15. 12. 57	17. 56. 43	15.28,3	8,4
14	M. Tu.	7. 21. 41. 27 7. 22. 42. 0 7. 23. 42. 35	15. 21. 10	18. 28. 12	15. 9,1	10,0
16"	W.	7. 24. 43. 11	15, 29, 25	18. 58. 21	14.46,6	11,6
18	Th. F. Sa.	7. 25. 43. 49	15. 33. 34	19. 12. 56	14.34,1	1235
	Su.	7. 27. 45. 7	15. 46. 7	19. 54. 32	13.51,8	14,9
21 22	M. Tu.	7. 29. 46. 29 8. 0. 47. 11	15. 54. 32	20. 20. 27	13.19,7	16
23 24 25	W. Th. F.	8. 1. 47. 56 8. 2. 48. 41 8. 3. 49. 28	16. 3. 0	20. 44. 52	12.44,5	18,7
25	Sa. Su.	8. 4. 50. 16	16, 11, 32	21. 7.44	12. 6,3	19,5
27 28 29	M. Tu.	8. 6. 51. 56	16. 15. 48 16. 20. 6 16. 24. 24	21. 29. 1	11.25,2	443/
30	W.		16. 28. 43	21. 48. 39	10.41,3	22,2
-	-		1		-	land.

Day	SEIGHT !	LOW I	NAME AND ADDRESS OF THE OWNER, WHEN		
Days of the Month,	meter of		Hourly Motion of the Sun,	Logarithm of the Sun's Distance,	Place of the Moon's Node,
6	Le Walle	1 11	LH	1,3000	3,19 1
7 16	6. 11, 3 6. 12, 7 6. 14, 0 6. 15, 2 6. 16, 3	1. 7, 6 1. 8, 4 1. 9, 0	2. 31, 3	9, 995561 9, 994971 9, 994417	9. 5. 59 9. 5. 40 9. 5. 21 -9. 5. 2 9. 4. 43

The Ecliples of JUPITER's Satellites will not be visible this Month, JUPITER being too near the SUN.

Charges Apolitica and a regular

[12	4]	N	VI	E M B I	RV	7681	
199		on- t		Gencen- tric Lon gitude.	Geocen- tric La- titude.	Declina- tion.	Paffage over Merid.
		1	0 1	1001	01/	05/2	1
POI	41		Elas 1	R Y. gr. I	A REPORT A	The second	H. Falk
7 1	10. 29.	45	6.47	8. 2. 13 8. 8. 25 8. 12. 3	2. 43		1.32
19		T	2. 15	8. 10. 55	1. 0	23. 6	0. 54
OF	0 +	E	PP 31	VENU	(C)	1 5	THE REAL PROPERTY.
7	8. 29.	12	0. 53S 1. 25	8. 8. 1		22. 20	1. 32
19		IO	2. 20	8. 15. 28 8. 22. 55 9. 0. 21	1. 9	23. 36	1. 39
150	7.	391	2. 43	MARS	100 10	24. 49	1.54
1 7 13 19 25	1. 6. 1. 10. 1. 13. 1. 17. 1. 20.	24 47 8	0, 22 S 0, 15 0, 8 0, 2 0, 4 N	0. 29. 33 0. 28. 14 0. 27. 18	0. 45	10. 54 N 10. 37 10. 28 10. 26 10. 34	11. 28 10. 56 10. 26 9. 58 9. 31
1			- 11	JPITE	PER	-	
13 13 19 25	7- 4- 7- 5-	50 17 45 12 40	1. 12 N 1. 11 1. 11 1. 11 1. 10	7. 4. 44 7. 6. 2 7. 7. 20 7. 8. 38 7. 9. 53	1. 0 1. 0 1. 1	12. 9S 12. 36 13, 2 13, 26 13. 50	23. 39 23. 21 23. 1 22. 41 22. 21
34	20 1	1	S	ATUR	N.	P. 47	3100
19	3. 12. 3. 12. 3. 12. 3. 12.	22 36 49	0. 25 S 0. 24 0. 23 0. 22	3. 17. 58 3. 17. 49 3. 17. 38	0, 25	21. 49 N 21. 51 21. 52 21. 54	16. 46 16. 22 15. 57 15. 32
25	3. 13.	31	0. 22	3. 17. 23		21.55	19. 5

		NOVE	MBEI		[125]
Days of 1	Days of t	Moon's Lon- gitude at Noon.	Moon's Lon gitude at Midnight.	Noon	Midnight.
in a	Tu.	4 9 37.46	4. 16. 3. 14	2. 55.40 S	3. 22. 49 S
3 4 5	W. Th. F. Sa.	4. 22. 23. 44 5. 4. 52. 7 5. 17. 6. 46 5. 29. 11. 25	5. 11. 1. 0	4. 26. 19	4. 8. 12 4. 41. 4 5. 0. 34 5. 6. 31
7 8 9	Su. M. Tu. W. Th.	6. 23. 2. 38 7. 4. 53. 56 7. 16. 44. 38	6. 17. 6. 21 6. 28. 58. 22 7. 10. 49. 15 7. 22. 40. 14 8. 4. 33. 5	4. 50, 25 4. 23. 52 3. 45. 54	4. 59. 0 4. 38. 40 4. 6. 14 3. 23. 4 2. 30. 56
12 13 14	F. Sa. Su. M. Tu.	8. 22. 29. 50 9. 4. 36. 4 9. 16. 52. 37	8. 16. 29. 32 8. 28. 31. 53 9. 10. 42. 50 9. 23. 5. 48 10. 5. 44. 26	1. 0. 13 S 0. 5. 7 N 1. 11. 14	0, 27, 48 S 0, 38, 13N 1, 43, 42
17 18 19	W. Th. F. Sa. Su.	10. 25. 20. 5 11. 8. 53. 34 11. 22. 53. 20	10, 18, 42, 35 11, 2, 3, 39 11, 15, 50, 12 0, 0, 3, 2 0, 14, 40, 35	4. 4. 35 4. 43. 6. 5. 6. 18	3. 40. 39 4. 25. 36 4. 56. 50 5. 11. 12 5. 6. 8
22 23 24	M. Tu. V. Th. F.	0. 22. 7. 17 1. 7. 12. 23 1. 22. 25. 13 2. 7. 35. 31 2. 22. 33. 19	1. 14. 48. 31 2. 0. 1. 18	3. 25. 26 2. 16. 29	4, 40, 22 3, 54, 48 2, 52, 29 1, 38, 22 0, 18, 48N
27 28 29	Sa. Su. M. Tu. V.	3. 7. 10. 27 3. 21. 21. 53 4. 5. 5. 33 4. 19. 22. 11 5. 1. 14. 20	3. 28. 17. 13 4. 11. 47. 11 4. 24. 51. 9	1. 37. 31 2. 45. 54 3. 43. 0	1. 0. 3 S 2. 12. 56 3. 16. 0 4. 6. 43 4. 43. 40
2	4.	1 70 part	11年4年1	12 D (2)	1: 1 :21

126		N	THE RESERVE	EMB	ER	1768.	
Days of Month	Days of Wee	D's Age.	age over	D's Right Afcen, at Noon.	D'sRight Afc, at Midn.		clination
the h.	the k.	ge,	h /	0 1	0 1	0 1	oils oils
3 4	Tu. W. Th. F. Sa.	23 24 25 26 27	18. 51 19. 36 20. 18 20. 59 21. 40	131, 16 143, 31 155, 5 166, 15 177, 16	149. 23 160. 42 171. 45		12, 49 N 8, 4 3, 6 N 1, 53 S 6, 45
7 8 9	Su. M. Tu. W. Th.	28 29 30 1 2	22. 22 23. 5 23. 51 0	188, 15 199, 29 211, 4 223, 8 235, 39	193. 50 205. 13 217. 3 229. 20 242. 5	13. 27 17. 19 20. 28	11. 19 15. 27 18. 59 21. 44 23. 33
13	Sa. Su. M. Tu.	3456	1. 28 2. 19 3. 9 3. 59 4. 48	248. 35 261. 46 275. 1 288. 9 301. 3	255. 9 268. 24 281. 36 294. 38 307. 24	24. 16 23. 18 21. 13	24. 18 23. 56 22. 24 19. 48 16. 10
16 17 18 19	Th. F. Sa.	8 9 10 11 12	5, 36 6, 23 7, 11 8, 0 8, 51	313, 43 326, 13 338, 44 351, 27 4, 38		9. 15 3. 52 S 1. 52 N	11, 45 6, 37 1, 2 S 4, 47 N 10, 29
23	Tu W.	13 14 15 16	9. 46 10. 44 11. 47 12. 52 13. 55	18. 33 33. 22 49. 4 65. 23 81. 50	25. 51 41. 7 57. 10 73. 38 89. 54	18. 2 21. 42 23. 51	15. 44 20. 2 22. 59 24. 16 23. 47
28	Sa. Su. M. Tu. W.	18 19 20 21 22	14. 54 15. 49 16. 39 17. 26 18. 9	97. 47 112. 50 126. 46 139. 38 151. 41	105, 27 119, 56 133, 19 145, 45 157, 28	20. 10 16. 20 11. 48	21. 42 18. 21 14. 8 9. 23 4. 22
	1-0				The Assert		

	NOI	EM	BER	1768.		127]
Week. Days of the Month.	D at	Semidt. p at Mid- night.	D at	Hor. Par. Dat Midnight.	Proport Lo- gar at Noon.	Proport Lo- gar. atMidn.
1 Tu 2 W. 3 Th 4 F. 5 Sa.	15. 17 15. 6 14. 58	15. 23 15. 11 15. 2 14. 54 14. 49	56. 54 56. 6 55. 26 54. 55 54. 31	56. 29 55. 45 55. 9 54. 41 54. 22	5002 5063 5115 5155 5187	5090 5137 5174
6 Su. 7 M. 8 Tu 9 W.	14. 44 14. 43 14. 44	14. 45 14. 44 14. 43 14. 45 14. 47	54. 14 54. 5 54. 2 54. 4 54. 11	54. 9 54. 3 54. 2 54. 7 54. 17	5210 5222 5226 5223 5214	5225 5226 5219
11 F. 12 Sa. 13 Su. 14 M. 15 Tu	14.54	14. 52 14. 57 15. 5 15. 14 15. 25	54. 24 54. 42 55. 6 55. 36 56. 13	54. 32 54. 53 55. 21 55. 54 56. 33	5197 5173 5141 5102 5054	5158 5122 5079
16 W 17 Th 18 F. 19 Sa. 20 Su.	15. 44 15. 57 16. 11	15. 37 15. 50 16. 4 16. 18	56. 55 57. 43 58. 34 59. 25 66. 12	57. 19 58. 8 58. 59 59. 50 60. 32	5000 4940 4876 4813 4757	4903 4845 4783
21 M. 22 Te 23 W. 24 Tl 25 F.	16.41 16.43 1. 16.40	16, 38 16, 43 16, 43 16, 37 16, 26	60. 50 61. 15 61. 22 61. 10 60. 40	61. 4 61. 21 61. 19 60. 57 60. 19	4711 4682 4673 4687 4723	4675 4677 4703
26 Sa. 27 Su. 28 M. 29 Tu 30 W	16. 5 15. 49 1. 15. 34	16, 12 15, 57 15, 41 15, 26 15, 14	59. 55 59. 1 58. 4 57. 7 56. 16	59. 28 58. 32 57. 35 56. 40 55. 53	4843 4913 4985	4810 4878 4950 5019 5080
	1					

[128] NOVEMBER 1768.							
Di	demois (of Discente	r from O, a	ind from Sta	is east of her.		
_	Stars Names	Noon.	3 Hours.	6 Hours.	9 Hours.		
7	vames	0 / 1/	0 1 11	0 1 11	0 / 1/		
1 2 3 T	ne Sun,	89, 59, 8 78, 14, 55 66, 49, 39 55, 39, 22 44, 40, 16	76, 48, 19 65, 25, 6 54, 16, 28	64. 0, 47 52. 53. 43	73. 55. 56 62. 36. 41 51. 31. 7		
11 F	omal- haut.	80. 2. 0 69. 16. 4 58. 36. 4	78. 41. 9 67. 55. 35	77. 20. 19 66. 35. 13			
13 14 15 a 16	Pegafi.	76. 28. 31 64. 35. 16 52. 35. 16 40. 32. 56 28. 45. 25	63. 5. 36 51. 4. 56 39. 2. 58	61. 35. 50	48. 4. 15		
17 18 ±	Arietis.	68. 44. 13 55. 17. 1 41-27. 1			63. 44. 9 50. 8. 20		
10000 1000	ldeba- ran.	74. 19. 54 60. 7. 22 45. 35. 33 30. 55. 35	58. 19. 17	56. 30. 56	40. 5. 32		
23 Pc	ollux.	57. 27. 32 42. 31. 45					
25 26 27 28	egulus.	21. 45. 53	47. 39. 40 33. 35. 14 20. 7. 21	45, 52, 25 31, 52, 3 18, 29, 42	44 5.39 30. 9.27 16.53. 1		
Ďı	pica.	49. 21. 8 36. 54. 0	47. 46. 34	58. 56. FI 46, 12, 21	44. 38. 28		
28 29 T 30	he Sun.	109, 28, 3	107.57.57	106. 28. 14	117. 4.43 104.58.54 93.17.33		
1	1			The state of			

N	OVE	MBE	R 1768	. [129]
_Diftances of			nd from Star	s east of her.
Stars	12 Hours.	15 Hours.	18 Hours.	21 Hours.
Names.	0 / 1/	0_/ //	0 1 11	0 1 11
1	84. 4. 22	82. 35. 32	81. 9. 1	79. 41. 49
2	72. 30. 10	71. 4.40		68, 14, 25
3 The Sun.	61. 12. 48	59.49. 9	58. 25. 42	57. 2. 26
4 3 5 1	50. 8. 41	48. 45. 23	47. 24. 13	46. 2.10
15 106 114 1	59. 13. 55	Frank.	100 074	-
11 Fomal-	74. 38. 43	73. 17. 57	71. 57. 16	70. 36. 38
12 haut.	63. 54. 51	62. 34. 52	61. 15. 4	59. 55. 28
12 AL 15 W	12.77	At at h	- T	Territoria de la constantina della constantina d
13	70. 32. 50	69. 3-37	67. 34. 16	66. 4.50
14 & Pegafi.	58, 36, 1 46, 33, 54	57. 5.55 45. 3.29	55. 35. 46	54· 5· 33 42. 3. 0
15	34. 35. 10	33. 6. 29	The second second	30, 11, 36
IN ME IN	24: 22	22. 1. 1	347 344 34	1570.2 269.0
17 a Arietis.	62. 3.26			
18 % Hitelis.	48. 24. 44	46. 40. 48	44. 56. 32	43.11.56
ST 35 10 F	60 16 24	65. 29. 38	63. 42. 32	61.55. 7
20 Aldeba-		51. 4. 13		
21 ran.		36. 25. 12		32. 45. 17
22	23. 40. 49		Call South Mil	MANAGEMENT AND ADDRESS OF THE PARTY AND ADDRES
WE 18 19 19		75 75 1	7	The state of
22 Pollux.		63. 5.31	61. 12. 49	59. 20. 9
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	49. 58. 3 35. II. 7	48. 6. 3	46, 14, 21	44. 22. 54
24	331. 44.	TOP OF IN		1
24	71. 30. 34	69. 38. 28	67. 46. 39	
25	56. 42. 31	54.53. 6	53. 4. 7	51. 15. 32
26 Regulus.	42. 19. 20	40. 33. 29	38. 48. 9	37. 3. 19
27	28, 27, 26 15, 17, 27		25. 5. 15	23. 25. 12
20 111 - 1	15.1/.2/	- July 1	Sec June	
28	68. 45. 32	67. 6. 16	65. 27. 25	63. 49. 0
29 Spica 双	55. 42. 57	54. 6.56	52. 31. 18	50. 56. 2
30	43. 4.55	41. 31. 4	39. 58. 50	38. 26. 16
28	110 00 0	111 0	712 20 4	110 58 22
29 The Sun.	102. 20. 68	102. 1 2	100, 22 1	110. 58. 33
39 1116 3411.				87. 34. 49
12		7. 3.		1 31 17

	[130] NOVEMBER 1768. [Diffances of D's Center from Stars, and from O well of her.								
739	Miances	of) scente	r from Stars	, and from C	well of her				
Days.	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.				
		9 1 11	0 1 11	0 1 11	0 / 1/				
1	Aldeba-	62.55. 1	A STATE OF	66. 6.22	67. 41. 35				
3	Pollux.	33, 57. 6 46. 6. 33	35. 28. 36 47. 37. 10	37. 0, 3 49, 7. 40	38. 31. 25 50. 38. 2				
4 5 6 7	Regulus.	21. 6. 7 32. 59. 52 41- 49. 7 56. 36. 18	22. 37. 48 34. 28. 40 46. 17. 37 58. 4. 37		25. 35. 26 37. 26. 10 49. 14. 31 61. 1. 14				
13	14 - 21	42, 54, 37 54, 11, 9	44. 18. 30	45. 42. 35	47. 6. 51 58. 28. 15				
15 16 17	The Sun.	65, 41. 35 77, 28, 55 89, 36, 20	78. 58. 40 91. 8. 49	92, 41, 40	70. 4. 38 81. 59. 10 94. 14. 53				
18	45,000	115. 1.50		105, 18, 5	106. 54. 25				
17	corni.	24. 26. 47 37. 56. 23	26. 6. 34 39. 39. 26	27. 46. 45 41. 22. 53	29. 27. 21 43. 6. 45				
19		56, 40. 9 69. 0. 16	58. 9.45 70.36. 2	59. 40. 16 72. 12, 24	61. 11. 40 73. 49. 20				
21 22 23	a Pegafi.	34. 13. 49 48. 8. 20 62. 37. 48	35. 54. 54 49. 55. 46		39. 20. 22 53. 31. 58				
23 24 25	« Arietis.	19. 0. 12 33. 48. 53 48. 39. 53	35. 40. 42	37. 32. 27	24. 30. 58 39. 24. 5				
25 26 27 28 29	Aldeba- ran.	17. 13. 22 30. 58. 48 44. 51. 38 58. 24. 45 71. 33. 1	18. 53. 21 32. 43. 29 46. 34. 33 60. 4. 41	20. 34. 57 34. 28. 6 48. 17. 7 61. 44. 13	22. 17. 40 36. 12. 34 49. 59. 20 63. 23. 22				
29 30	Pollux.	30, 7, 39 42, 36, 6	31. 41. 42 44. 8. 52	33. 15. 38 45. 41. 24	34 49. 26 47. 13. 42				

E	N	OVE	MBE	R 1768	[131]				
	Distances of D's Center from Stars, and from @ west of her.								
Day	Stars	12 Hours.	15 Hours.	18 Hours.	21 Hours.				
S.	Names.	0 1 11	6 / //	0 1 11	0111				
1	Aldebaran	69. 16. 29		-					
1 2 3	Pollux.	27, 50, 56 40, 2, 42 52, 8, 16	29. 22. 26 41. 33. 51						
3 4 5 6 7	Regulus.	15. 16. 17 27. 4. 23 38. 54. 51 50. 42. 56 62. 29. 32	40. 23. 28	18. 12. 18 30. 2. 8 41: 52. 3 53. 39. 39	19. 40. 36 31. 31. 0 43. 20. 36 55. 7. 59				
12 13 14 15 16 17 18	The Sun.	48. 31. 18 59. 54. 24 71. 32. 53 83. 29. 54 95. 49. 28 108. 31. 8	73. 1. 26 85. 0. 59 97. 22. 25		52. 45. 53 64. 14. 23				
17	3 Capri- corni.	31. 8. 21 44. 51. I	32. 49. 45	34. 31. 33	36, 13, 46				
18	z Aquilæ.	50. 52. I 62. 43. 54 75. 26. 47	52. 17. 24 64. 16. 55		55. 11. 31 67. 25. 8				
20 21 22	a Pegáfi.	27. 44. 26 41. 4. 30 55. 20. 38	29. 19. 1 42. 49. 27 57. 9. 37	44. 35. 7 58. 58. 50	46. 21. 26				
23 24	of Little	26. 22. 9	28. 13. 36 43. 6. 57	30. 5. 16 44. 58. 7	31. 57. 3 46. 49. 5				
25 26 27 28		24. 1. 8 37. 56. 52 51. 41. 12 65. 2. 7		41. 24. 47 55. 3. 44	43. 8. 20				
30	I OHUX.	36. 23. 7 48. 45. 46		1.1.12	41. 3. 7				
30	Regulus.	12. 4.25	1 13. 31. 19	14 59. 15	16. 27. 52				

[132] NOVEMBER 1768.

JUPITER's Satellites will not be visible this Month, being too near the Sur.

		DECEMBE	R /1768/ [133]
Days of the Month.	Days of the Week.	Sundays, Holidays, &c.	Phases of the Moon. D. H. / New Moon — 8, 20, 49
I 2 3 4 5	Th. F. Sa. Su. M.	2d Sunday in Advent.	First Quarter — 16. 11. 32 Full Moon — 23. 2. 53 Last Quarter — 30. 11. 1 Other Phenomena. D.
6 7 8 9 10	Tu. W. Th. F. Sa,	Nicholas. Concept. of V. Mary.	4. ¥ a \(\text{\text{a}}\) diff. Lat. 39'. 5. ② Stationary. 7. ③ M 7h 42'. 8. ③ eclipfed invifible.
11 12 13 14 15	Su. M. Tu. W. Th.	3d Sunday in Advent. Lucy.	(π £ 22 ^h 3/. 13. ĕ ν M diff. Lat. 29′. 18. (n ¾ 10 ^h 53′. 20. (n Pleiadum 17 ^h 10′. Θ enters 𝒯 at 17 ^h 37′. 22. (H Π 19 ^h 23′.
16 17 18 19 20	F. Sa. Su. M. Tu.	O Sapient, Cam. T. ends. Oxford Term ends. 4th Sunday in Advent.	
21 22 23 24 25	W. Th. F. Sa. Su.	St. Thomas, Christmas-Day.	(ξΩ 9 ^b 35'. (οΩ 14 ^h 14'. (πΩ 23 ^h 23'.
26 27 28 29 30	M. Tu. W. Th. F.	St. Stephen, St. John. Innocents.	
31	Sa.	Silvefter.	100

[134	1	DECE	MBE	R 17	68.	
Days of Mont	Days of Week	Sun's Longitude.	Sun's Right Afc. in Time.	Declin.	Equat. of Time Sub.	Diff.
the	the k.	50111	h_7 11	0 / 11	1 11	"
3	Th. F. Sa. Sa. M.	8. 9. 54. 37 8. 10. 55. 34 8. 11. 56. 32 8. 12. 57. 31 8. 13. 58. 32	16. 37. 23 16. 41. 44 16. 46. 5	22. 6. 39 22, 15. 0 22, 22, 55	10.18,3 9.54,6 9.30,4 9. 5,6 8.40,1	
6 7 8 9	Tu. W. Th. F.	8. 14. 59. 34 8. 16. 0, 36 8. 17. 1. 40 8. 18. 2. 45	15. 54. 50 16. 59. 13 17. 3. 37 17. 8. 1	22. 37. 26 22. 44. 2 22. 50. 11 22. 55. 53	8.14,2 7.47,7 7.20,8 6.53,3	26,9
11	Sa. Su. M. Tu. W.	8. 20. 4. 57 8. 21. 6. 3 8. 22. 7: 10	17. 25. 40	23. 5. 55 23. 10. 14	5.57,3 5.28,8 5. 0.0	28,2 28,9 28,8 29,1
15	F. Sa. Su.	8. 24. 9. 25 8. 25. 10, 33 8. 26. 11. 41 8. 27. 12. 49	17. 34. 32 17. 38. 58 17. 43. 25 17. 47. 51	23. 20. 25 23. 22. 53 23. 24. 53 23. 26. 24	3.32,1 3. 2,4	29,5
	M. Tu. W.	9. 28. 13. 58 8. 29. 15. 6	17. 52. 18 17. 56. 44 18. 1. 11	23. 27. 27 23. 28. 2 23. 28. 9	1.32,8	29,9 29,9 30,1
_	Th. F. Sa. Su.	9. 2. 18. 32	18. 5. 38 18. 10. 4 18. 14. 31 18. 18. 57	23. 27. 47 23. 26. 58 23. 25. 40 23. 23. 53	0.32,7 0. 2,8 Add27.1	29,9
26 27 28 29 30	M. Tu. W. Th. F.	9. 6. 23. 10 9. 7. 24. 20 9. 8. 25. 31	18. 27. 50 18. 32. 16 18. 36. 41	23. 21. 39 23. 18. 55 23. 15. 44 23. 12. 4 23. 7. 58	1.56,2	29,6 29,4 29,2 28,9
31	Sa.	9. 10. 27. 53	18. 45. 32	23. 3. 23	3.52,4	28,7

ALC: N	DECEMBER 1768. [135]								
Days.	meter of	patting the Wotion		Logarithm of the Sun's Distance.	Place of the Moon's Node.				
ō	1 11	1 11	1 11	はないある	. 0 /				
7 13 19	16, 17, 2 16, 18, 0 16, 18, 6 16, 19, 0 16, 19, 2	1, 10, 2 1, 10, 7 1, 11, 0 1, 11, 1 1, 11, 0	2. 32, 5 2. 32, 7 2. 32, 8	9. 993545 9. 993227 9. 992960 9. 992757 9. 992648	9. 4. 24 9. 4. 5 9. 3. 46 9. 3. 27 9. 3. 8				

Eclipses of the SATELLITES of JUPITER.

2.5	Satellite.		Satellite.	III. Satellite.		
D.	h / //	D.	h / //	D.	b / 11 7	
2 46 8 9 11 13 15 16 18 20 22 23 25 27 29 31	17*30. 9 11. 57. 43 6. 25. 18 0. 52. 47 19*20. 19 13. 47. 45 8. 15. 18 2. 42. 42 21. 10. 10 15. 37. 33 10. 4. 59 4. 32. 23 22. 59. 46 17*27. 15 11. 54. 37 6. 22. 4 0. 49. 28	1 4 8 11 15 18 22 26 29	3. 25. 42 16. 42. 14 5. 58. 34 19*14. 54* 8. 31. 1 21. 47. 3 11. 3. 3 0. 19. 2 13. 34. 59	6 6 14 14 21 28 28 28 17	21. 25. 20 I 23. 10. 20 E 1. 20. 0 I 3. 4. 26 E 5. 14. 4 I 6. 58. 2 E 9. 8. 21 I 10. 51. 59 E 7. Satellite. 4. 28. 40 d 22. 14. 0 d	

1	44-	91	ST to the	MINNSON,	Sept 1	255		
I	[136] DECEMBER 1768.							
				Geocen-		Declina-	Patiage	
	10000000			tric Lon-		tion.	over-	
Jav.	gitu	de.	tade.	gitude.	titude.	130	Merid.	
S	5 0	1	0 1	8 0 1	0 1	0'1	h /	
	100	[C	V 174	1444	100 100	STATE OF	All III	
1	AL.		M	ERCU	RY.	gr. Ele	ng, 14".	
1		0. 43		7. 27. 23		17. 14 5		
7		5.13	6.59	7. 26. 31		16. 46	22.38	
13		4. 13	6. 9	8. 0.44	2. 16	18. 7	22. 32	
19		8. 32	2. 5	8. 15. 33	I. 32 0. 44	21.57	22, 41	
2		3.		THE PART OF	1		CUCK CO	
	ret-	L.	100	VENU	DE - 0	1 8 1	य ।	
	10. I		3. 15			24. 455	2, 1	
	10. 2		3. 13	9. 15. 14	The second second	24. 15	2. 7	
	II.		3. 21	9. 22. 39		23. 19	2. 13	
	11. 1		3. 23	10. 7. 26		21. 58	2. 10	
- 5	1000	1 2	70.79	T. 10 - 10 -	CO DOM	120, 12		
1	600	10	44 31	MAR	S.	11/10	12	
1		3. 44			0.27 N	10. 50 N	9.15	
7		6. 59	0.17			11. 12	8.41	
13		0. 13	0. 23	0, 28, 29	B. W. C. W. C.	11.44	8. 18	
19		3. 24	0. 29	1. 1. 26	0.59	12. 21	7.56	
2	76	1 20		UPIT		23.	-1.30	
	9.10	1.6	33 340	MAN G	the series	Contract of the		
1		6. 7	1. 10 N	STATE OF THE PARTY NAMED IN		14. 13S	22. 0	
7		6. 35	1. 10 1. 10	7. 12. 21		14.35	21. 38	
13		7. 30	1. 9	7. 13. 33	1. I 1. 2	14.57	21. 17	
25		7. 57	1. 9	7. 15. 46		15.36	20. 33	
	17	HI	10000	ATU	DECEMBER OF	100 m	11-01	
1	2.1	3. 16	-	-	18	22. ON	74 28	
7		3. 30	0.21	3. 17. 4	0. 23	22. 3	14. 38	
13		3. 43	0. 20	3. 16. 17	0. 22	22. 7	13. 42	
19		3.57	0, 20	3. 15. 49	0. 22	22. 10	13. 14	
25		4. 10	0.19	3. 15. 23		22. 14	12. 45	

1	DECEMBER 1768. [137]								
Days of Month	Days of Week.	Moon's Lon-	Moon's Lon- gitude at Midnight.	Moon's La- titude	Moon Latitude at Midn.				
the l	the	\$ 0 1 11	5 0 1 11	0 7 11	0 1 11				
2 3 4	Th. F. Sa. Su. M.	5. 13. 45. 37 5. 26. 0. 22 6. 8. 3. 0 6. 19. 57. 45 7. 1. 48. 29	6, 2; 2, 56 6, 14, 1, 6 6, 25, 53, 23	5, 12, 28 5, 13, 56 5, 1, 51	5. 6.26 S 5.14.57 5. 9.33 4.50.53 4.19.54				
6 78 9	Tu. W. Th. F. Sa.	7. 13. 38. 38 7. 25. 31. 0 8. 7. 27. 41 8. 19. 30. 45 9. 1. 41. 36	8. 25. 35. 4	1. 14. 14	3.37.42 2.45.53 1.46.16 0.41.14 S 0.26.30 N				
11 12 13 14 15	Su. M. Tu. W. Th.	9. 20. 33. 4 10. 9. 17. 1 10. 22. 15. 30	9. 20. 15. 59 10. 2: 53. 22 10. 15. 44. 20 10. 28. 50. 42 11. 12. 14. 15	2. 0. 35 3. 7. 37 4. 0. 15	1.33.55 2.37.56 3.35.12 4.22.27 4.56.40				
17	F. Sa. Su. M. Tu.	6. 2. 54. 6 0. 17. 3. 59 1. 1. 30. 39	11. 25, 56, 9 0. 9, 56, 46 0. 24, 15, 20 1. 8, 49, 27 1. 23, 34, 35	5. 17. 27 5. 8. 14 4. 39. 35	5.14.55 5.15.15 4.56.21 4.18.10 3.22.39				
21 22 23 24 25	W. Th. F. Sa. Su.	2. 0, 59, 25 2. 15, 49, 26 3. 0, 33, 8 3. 15, 3, 36 3. 29, 14, 48	2. 23. 12. 33 3. 7. 50. 30 3. 22. 11. 58	1. 34. 47 o. 14. 23 N 1. 5. 50 S	2.13.11 0.54.57 N 0.26. 9 S 1.44. 4 2.53.44				
27 28 29	M. Tu. W. Th. F.	4. 13. 2. 47 4. 26, 26. 1 5. 9. 25. 2 5. 22. 2. 5 6. 4. 20. 49	5. 2. 58. 28 5. 15. 46. 10 5. 28. 13. 33	4. 15. 3 4. 51. 3 5. 11. 46	3.51.25 4.34.57 5. 3.18 5.16.28 5.14.58				
3.1	Sa.	6. 16. 25. 13	6. 22. 23. 40	5. 9. 1	4.59.45				

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[138		D	ECI	EMB	ER	1768.	-
Days of the Month.	Days, of th) 's Age.	D's Pafsage over Merid.	b's Right Afcen. at Noon.	Afc. at	p's Declinat. at Noon.	clin, at
1 2 3 4	Th. F. Sa. Su.	23 24 25 26	18, 52 19, 32 20, 14 20, 56	163. 9 174. 15 185. 19 196. 29	168. 44 179. 47 199. 52 202. 11	1. 50 N 3. 11 S 8. 10 12, 28	6. 42 S 5. 38 10. 17 14. 31
5 78 9	M. Tu. W. Th.	28 29 1 2	21. 40 22. 27 23. 16 0. 6	219. 55 232. 21 245. 15 258. 29	238. 44 251. 50 265. 10	24. 17	21, 9 23, 11 24, 12 24, 5
10 11 12 13 14 15	Sa. Su. M. Tu. W. Th.	3 4 5 6 7 8	0. 57 1. 47 2. 36 3. 24 4. 11 4. 57	271. 51' 285. 8 298. 9 310. 52 323. 19 335. 35	291. 41 304. 33 317. 7 329. 27	23. 35 21. 43 18. 48 14. 56 10. 19 5. 8 S	22, 48 20, 23 16, 58 12, 43 7, 47 2, 24 S
16 17 18 19 20	F. Sa. Su. M. Tu.	9 10 11 12 13	5. 43 6. 31 7. 22 8. 16 9. 15	347. 56 0. 33 13. 43 27. 40 42. 31	354. 11 7- 3 20. 35 34. 59 50. 16	o, 23 N 6, o 11, 27 16, 23 20, 24	3. 12 N 8. 46 (4. 0 13. 31 21. (8
21 22 23 24 25	W. Th. F. Sa.	14 15 16 17 18	10. 17 11. 20 12. 22 13. 21 14. 14	58. 13 74. 25 90. 36 106. 13 120. 54	66, 17 82, 33 98, 31 113, 41 127, 50	23. 9 24. 17 3. 43 21. 32 18. 3	23, 56 24, 13 22, 48 19, 56 15, 56
25 27 28 29 30	M. Tu. V. Th.	19 20 21 22 23	15. 4 15. 50 16. 33 17. 15 17. 57	134. 32 147. 13 159. 10 170. 38 181. 53	140. 59 153. 16 164. 57 176. 16 187. 29	8. 43 3. 33 N 1. 37 S	11. 14 6. 9 0. 57 N 4. 8 S 8. 57
31	Sa.	24	18. 38	193. 6	198. 48	11. 13	13. 22

	-	DEC	EM	RFR	1768.	Ta	2031
- Contract	De Tara	Semid.	CARL THE PARTY NAMED IN		The state of the s	-	391
Days of Month	Days of Week	D at Noon.	at Mid-	D at	D at Midnight.	Pr., ort, I	port.
the	the	1 11	1 11	1 11	1 11	Lo-	5
1 2 3 4 5	Th. F. Sa. Su. M.	15. 8 14. 58 14. 52 14. 47 14. 45	15. 3 14. 54 14. 49 14. 46 14. 45	55. 32 54. 57 54. 32 54. 16 54. 9	55. 13 54. 42 54. 23 54. 11 54. 8	51535 51865 52075 52175	173 198 214
6 7 8 9	Tu. W. Th. F. Sa.	14. 45 14. 47 14. 51 14. 55 15. 1	14. 46 14. 49 14. 53 14. 58	54. 9 54. 16 54. 29 54. 46 55. 8	54. 11 54. 22 54. 37 54. 56 55. 20	5217 5 5227 5 5190 5 5167 5 5138 5	199 179 154
11 12 13 14	Su. M. Tu. W. Th.	15. 8 15. 16 15. 25 15. 34 15. 44	15. 12 15. 20 15: 29 15: 39 15. 49	55. 33 56. 1 56. 33 57. 7 57. 45	55. 47 56. 16 56. 50 57. 26 58. 3	5106 5 5069 5 5028 5 4985 4 4937 4	050 006 961
16 17 18 19 20	F. Sa. Su. M. Tu.	15. 55 16. 5 16. 15 16. 24 16. 30	16. 0 16. 10 16. 19 16. 27 16. 32	58. 23 59. 2 59. 39 60. 10 60. 32	58. 42 59. 20 59. 54 60. 22 60. 39	4890 4 4842 4 4797 4 4759 4 4733 4	820 778 745
21 22 23 24 25	W. Th. F. Sa. Su.	16. 33 16. 31 16. 26 16. 17 16. 4	16. 32 16. 29 16. 22 16. 11 15. 57	60. 42 60. 38 60. 18 59. 44 58. 59	69. 42 60. 30 60. 2 59. 23 58. 34	4721 4 4725 4 4750 4 4790 4 4845 4	735 769 816
26 27 28 29 30	M. Tu. W. Th. F.	15, 50 15, 36 15, 22 15, 10 15, 1	15. 43 15. 29 15. 16 15. 5 14. 56	58. 8 57. 15 56. 25 55. 41 55. 5	57.41 56.50 56. 2 55.22 54.50	4908 4 4975 5 5038 5 5095 5 5142 5	0068
31	Sa.	14. 54	14.51	54. 39	54.30	1517715	189

T 2

1	(6) D	ECE		-	THE RESERVE AND PERSONS NAMED IN
	Distances of	of 13's Cente	r from O,	and from Sta	rseaft of her.
Day	Stars.	Noon.	3 Hours.	6 Hours.	9 Hours.
çri	Names.	0 1 11	10111	0 1 11	0 1 11
1 2	Tt. 445	86. 9. 52 74-59. I		53, 20, 43 72, 13, 25	
3 4	The Sun.	64. 0. 32 53. 9. 44	62. 38. 52	61. 17. 18	59.55-50
5	-	67. 18. 36	41. 1. 26	39. 40. 32	38. 19. 36
12	2 Pegafi.	55. 15. 19 43. 11. 54	53. 44. 43	52. 14. 9	50, 43, 36
14	AND INC.	31. 22, 14	70. 8.48	1000	25 60 00
15	2 Arietis.	58. 37. 32		55. 17. 53	53. 37. 43
16	2 - 23 kg	78. 8. 2 64. 28. 50			73. 2.46 59.17.25
18	Aldeba- ran.	50. 33. 41 36. 27. 13	48. 48. 20	47. 2.51	45. 17. 12
20		63. 36. 47		- 6	7000
21	Pollux.	49. 0. 52 34. 29. 35		45. 21. 57	
22		70. 47. 56 56. 4. 29			65. 15. 28
	Regulus.	41. 35. 42	39. 48. 33	38. 1.49	
26	re so to	14. 6.45		64. 7. 15	1028
127	Spica my	54. 8. 36	52, 30, 16	50. 52. 21	49. 14. 50
29		28. 42. 5	27. 9.45	25. 37. 47	
	St Core	117. 52. 46	116. 24. 53		113. 30. 0
30	The Sun.	95. 4. 35	93. 41. 19	92, 13, 16	90. 55. 28
1.1		73. 12. 14		01. 20, 33	19.30.34

	SECTION AND ADDRESS OF THE PARTY.	ECE	BARN CHARLES BY THE	STATE OF THE PARTY	The second second
77	Distances of	of p's Cente	r from O, a	nd from Star	seaft of her.
Days	Stars Names.	12 Hours.	15 Hours.	18 Hours.	21 Hours.
	1Vallics.	0 1 11	1011911	0 1-11	O ,
1	3+ (-8)	80, 32, 34 69, 28, 31	79. 8.52 68. 6.19	77. 45. 22 66. 44. 15	76. 22. 5
St. CO. A.	The Sun.	58. 34. 28 47. 45. 51	57. 13. 11 46. 24. 57	55. 51. 58 45. 4. 4	54. 30. 49 43. 43. 11
10	10 mg 10	73. 18. 32	71. 48. 41	70. 18. 45	1000
11	a Pegafi.	61, 17, 24	59. 46. 56 47. 42. 36	58. 16. 25 46. 12. 14	56. 45. 53
13	124 24	37. 13. 43	35.45. 2	34. 16. 50	32. 49. 13
14		65. 13. 56 51. 57. 18		61. 56. 12 48. 35. 48	60, 16, 59 46, 54, 43
16		71. 20. 29 57. 33. 7		67. 55. 10 54. 3. 49	
18	ran.	43. 31. 24	41. 45. 28	39. 59. 26	38. 13. 20
20			54. 29. 30		10.00
21		41. 43. 34		38. 5.57	
22		63. 24. 55	61. 34. 31		
24	The second second	34. 29. 37	32. 44. 10	30. 59. 15	29. 14. 52
20	1	60. 46. 0	-	50 mm	
2		47. 37. 43	46. I. 1	44. 24. 42	42. 48. 46
29	15 = 1	34. 54. 42 22. 34. 55 10. 41. 13	21. 4. 1	19. 33. 30	
28		112. 3, 18	110. 36. 50	109. 10. 40	107. 44. 49
10.		89. 32. 53	88. 10. 28	97. 51. 42 86. 48. 11	85. 26. 5
13		78. 37. 27	77. 10.	75. 54. 41	74- 33- 25

	M.3.4		MBE	COMMISSION OF THE PARTY OF THE	
-	Distances	of his Cente	er from Stars	and from E	welk of her.
Days.	Stars Names.	Noon.	3 Hours.	6 Hours.	9 Hours.
	1	0 1 11	0 1 1	0 1 11	0 1 11
NAMA S	Regulus.	17. 56. 57 29. 53. 7 41. 45. 35 53. 33. 9 65. 18. 36	19, 26, 16 31, 22, 30 43, 14, 14 55, 1, 23	44. 42. 50	34, 21, 0 46, 11, 22
567	Spica 100	11. 27. 42 23. 4. 25 34. 52. 39		14. 20. 3. 26. 0. 45	15. 46. 47 27. 29. 6
13 14 15 16 17 18	The Sun.	47. 14. 36 59. 12. 14 71. 24. 41 83. 53. 47 96. 40. 42 109. 46. 9	48. 43. 33 60, 42. 56 72. 57. 23 85. 28. 40 98. 17. 52 111. 25. 33	74. 30. 21 87. 3. 50 99. 55. 20	63. 45. 4 76. 3. 35 88. 39. 16
17 18	a Aquilæ.	65. 8. 6	66. 39. 3	68. 10. 36 80. 41. 0	69. 42. 43
19 20 21	a Pegali,	42. 47. 10 56. 38. 25 70. 53. 8	44. 29. 9 58. 24. 19	46, 11, 47 60, 10, 33	47.55. 0 61.57. 5
21	a Arietis.	27, 18, 42	29. 8. 2 43. 48. 31	30. 57. 37	32. 47. 24 47. 28. 59
23 24 25 26	Aldeba-	24. 37. 11 38. 39. 44 52- 37. 49 66. 16. 41	25. 21. 39 49. 25. 13 54. 21. 23	28, 6, 36 42, 10, 32 56, 4, 3,	29. 51. 52 43. 55. 42 57. 47. 31
26 27 28	Pollox.	25. 4. 35. 37-55. 58 50. 36. 43	26. 40, 57 39. 31. 56	28, 17, 25 41, 7, 40	29. 53. 56 42. 43. 10
28 29 30 31 1.1	Regulus.	13. 50. 1 25. 59. 46 38. 6. 15 50. 2. 31 61. 51. 53	15. 20. 28 27. 31. 7 39. 36. 18 51. 31. 28	16. 51. 19 29. 2. 20 41. 6. 13 53. 0. 20	18. 22. 28 30. 33. 24 42. 35. 57 54. 29. 6

	E	ECE	MBE	R 71768	[143]
10	Diffances	of D's Cente	er from Stars	, and from	west of her.
Days,	Stars Names,	12 Hours.		18 Hours.	TOTAL CO.
1234	Regulus.	23. 54. 58 35. 50. 5 47. 39. 49 59. 25. 56	25, 24, 35 37, 19, 5 49, 8, 13	-	28, 23, 40
5	Spica TX	17. 13. 49 28. 57. 35		20, 8, 42 31, 54, 53	21, 36, 28
12 13 14 15 16 17 18	The Sun.	53. 11. 40 65. 16. 29 77. 37. 5 90. 14. 58 103. 11. 7 116. 25. 35	54. 41. 28 66. 48. 9 79. 10. 51 91. 50. 58 104. 49. 27 118. 6. 6	68. 20. 4 80. 44. 53 93. 27. 19 106. 28. 4 119. 46. 53	57. 41. 45 69. 52. 15 82. 19. 12 95. 3. 50 108. 6. 58 121. 27. 55
15 17 18	z Aquilæ,	59. 10. 49 71. 15, 23 83. 52. 37		62. 8. 5 74. 22. 11	63. 37. 46 75. 56. 17
18	z Pegali.	36. 7. 10 49. 38. 46 63. 43. 54	37. 45. 48 51. 23. 1 65. 30. 57	39. 25. 25 53. 7. 44 67. 18, 12	41. 5. 54 54. 52. 53 69. 5. 36
2.2	a Arietis.	34. 37. 21 49. 19. 5	36. 27. 27	38, 17. 39	40. 7.55
24	Aldeba- ran.	17. 48. 19 31. 37. 21 45. 40. 41 59. 30. 6	19. 28. 33 33. 22. 56 47. 25. 22 61. 12. 18	21. 10. 22 35. 8. 34 49. 9. 47 62. 54. 8	22. 53. 21 36. 54. 11 50. 53. 56 64. 35. 35
2.7	Pollux.	31. 30. 30 44. 18. 25	33. 7. 2 45. 53. 24	34. 43. 29 47. 28. 7.	36. 17. 48
28 29 30 31	Regulus.	19. 53. 49 32. 4. 19 44. 5. 33 55. 57. 47	21, 25, 17 33, 35, 3 45, 34, 59 57, 26, 23	22. 56. 49 35- 5- 37 47- 4- 17 58. 54- 57	24. 28. 19 36. 36. 1 48. 33. 28 6c. 23. 26
			De la		

[144] DECEMBER 1768.

Configurations of the SATELLITES of JUPITER at 6 o'th' Clock in the Morning.

1 4	O 1,2.
2 4 3 2,	0
3 10 4 3 12	0
4	O .
5 2 0	O 44 ·3
6	O .1 3. 4
71	⊙ 3d2 ⁴
2	O 1. 2.
9 3. 2. "	O- 000 - 4
10	① 1. 4.
11 1:0	O.3 + 1.3 4 4 4 1 2 2 1 1 2 1
12	O ₂ , 4.
13	O .1 3.
14 4 1	0.2
15	0 102
15 4. 3. ·································	O 1, 2,
16 4. 3. 1.	0
16 4. 3. ·1 17 4 ·3 ·2	O t.
16 4. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	O 1.
16 4. 3. 2. 17 4 3 2 18 3.0 4 19 1 • 4	O t,
16 4. 3. 12. 17 4 19 1 • 4 2. 20 2.	○ t, 1 ○ 2 ○ 2, 13 ○ -1 3,
16 4 3. 12. 17 4 3 2. 18 3.0 4 19 1 4 2. 20 2. 11 2.0 1.	○ t. 1 ○ t. 2 ○ 2. 3 · 3 · 3 · 4 · 3 · 3 · 3 · 3 · 3 · 3 ·
16 4. 3. 12. 17 4 3 2 18 3.0 4 19 1 0 4 2. 21 2. 3.	○ r, · · · · · · · · · · · · · · · · · ·
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 0 4 2. 21 2.0 1. 22 2 3. 3. 12 23	○ t. 1 ○ t. 2 ○ 2. 3 · 3 · 3 · 3 · 4 · 3 · 3 · 4 · 4
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 0 4 20 20 2. 2 11 2.0 1. 22 23 3. 24 25 3. 25	○ t. 1 ○ t. 2 ○ 2. 3 ○ 3. ○ 1 3. 4 ○ 3. ○ 1 4 2. ○ 1 .4 ○ 1 .4
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 0 4 20 20 2. 2 11 2.0 1. 22 23 3. 24 25 3. 25	○ t,
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 0 4 20 20 2. 2 11 2.0 1. 22 23 3. 24 25 3. 25	○ t, ○ t, ○ 2 ○ 1 4 ○ 3 ○ ○ ○ ○ 3 ○ 4 ○ ○ 3 ○ 4 ○ 3 ○ 4 ○ 3 ○ 4 ○ 3 ○ 4 ○
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 4 20 21 2. 21 3. 22 3 3. 1 2 24 3 2 25 3.	○ r. 1 ○ r. 2 ○ r. 3 ○ r. 4 ○ r. 3 · r. 4 ○ r. 7 · r. 7 · r. 8 · r. 9 · r. 9 · r. 1 ·
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 4 20 21 2. 21 3. 22 3 3. 1 2 24 3 2 25 3.	○ t,
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 0 4 20 20 2. 2 11 2.0 1. 22 2 3. 3. 12 24 25 26 1 0 27 28 29 1 2. 29 1	○ t. ○ t. ○ 2. ○ 2. ○ 1. 3. 4 ○ 3. ○ 1. 4 ○ 3. ○ 1. 3 ○ 4. ○ 2. 3 ○ 4. ○ 2. 3 ○ 4. ○ 2. 4 ○ 3. ○ 4. ○
16 4. 3. 12. 17 4 3. 2 18 3.0 4 19 1 4 20 21 2. 21 3. 22 3 3. 1 2 24 3 2 25 3.	○ t,

EXPLANATION and USE

OF THE

ARTICLES

Contained in the

ASTRONOMICAL and NAUTICAL EPHEMERIS

I may be proper first to premise, that all the Calculations are made according to apparent Time by the Meridian of the Royal Observatory at Greenwich. They are likewise adapted to apparent Noon, except where they are otherwise distinguished, as the Eclipses and Configurations of Jupiter's Satellites, the Moon's Places, &c, computed for Midnight, and the Distances of the Moon from the Sun and Stars for every third Hour; which are all computed to the apparent Times set down.

Apparent Time is that deduced immediately from the Sun, whether from the Observation of his passing the Meridian, from his Altitude observed at a Distance from the Meridian, or from his observed Rising or Setting. This Time is different from that shewn by Clocks and Watches well regulated at Land, which is called equated or mean Time. This will be explained when we come to treat of the Equation of Time.

The Day is here supposed, according to the Method of Astronomers, to begin at Noon, or 12 Hours later than the civil Day of the same Denomination, and to be counted up to 24 Hours, or the succeeding Noon, when the next Day begins. Thus the Day of the Month and the Hour of the Day are the same in this Method as in the civil Account at Noon, and from Noon till Midnight; but from Midnight till Noon they

differ; for whereas in the civil Account a fresh Day is supposed to begin at Midnight, and the Hours to begin over again, in this Method the Day is still continued beyond Midnight, and the Reckoning of the Hours is continued up to 24. Thus the Distances put down to January 10, 15 Hours, belong to January 11 at Three in the Morning by civil Reckoning.

to January 11 at Three in the Morning by civil Reckoning.

There are 12 Pages for every Month. The first Column of the first Page of each Month contains the Day of the Month; the Second, the Day of the Week expressed concisely by the initial Letter or Letters, Su. standing for Sunday, M. for Monday, Tu. for Tuesday, W. for Wednesday, Th. for Thursday, F. for Friday, and Sa. for Saturday: The third Column exhibits the Sundays and Festivals of the Church of England, and other remarkable Days: The last Column shews at Top the Moon's Phases, or the Times of new and full Moon, and of the first and last Quarter, or two Quadratures with the Sun: Beneath are contained miscellaneous Phænomena, namely, Eclipses of the Sun and Moon, and Occultations of Planets or fixed Stars not less than the fourth Magnitude, by the Moon. as they should happen at Greenwich by the Tables; the Conjunctions of the Moon with all Stars not less than the fourth Magnitude, which can be Occultations any where on the Globe, between the Latitudes of 60°. North and 40°. South: The Conjunctions, Oppositions and Quadratures of the fuperior Planets with the Sun; and the Conjunctions and greatest Elongations of the inferior Planets from the Sun, the Entrance of the Sun into the feveral Signs, and any other remarkable Phanomena.

The Stars are expressed by Bayer's Characters of Reference. The Conjunction of the Moon or a Planet with a Star, is denoted by prefixing the Character of the Moon or Planet to that of the Star, the Time of the Conjunction being placed immediately after. The Case is the same with Respect to the Occultation of a Star or Planet by the Moon, only this is further distinguished by the Addition of Im. or Immersion, to signify the Disappearance behind the Moon; and Em. or Emerson, to signify the Re-appearance of the same. Thus 8d p & w 16h. 22/. tignifies that the Moon will be in Conjunction with the Star & w on the Eighth Day at 16h. 22/. exclusive of Parallax: And 10d, p & II Imm. 9h 14'. Em. 10h. 23' signifies that the Moon will eclipse & II on the 10th Day, the lumersion being 2t 9h 14'. and 2t 10h. 23', apparent Time

The Occultations fet down are those only visible at Greenwich; and the Circumstances will not differ very widely in most Parts of the Kingdom; but in very distant Places they will differ very much, owing to the Change of the Moon's Parallax, or it may become no Occultation at all: The like

may be faid of Eclipses of the Sun.

Eclipses of the Sun, and Occultations of fixed Stars by the Moon, if observed in Places whose Latitude and Longitude are well determined, may be applied to the Correction of the lunar Tables; but if made in Places whose Latitude only is well known, may be applied to the Determination of the Longitude of the Place; but for this Purpose an accurate Calculation must be made of the Moon's Parallaxes in Longitude and Latitude, which makes this Method of fettling the Longitudes of Places, though a very accurate one, less convenient in Use for Persons not much versed in aftronomical Calculations. However, this ought not to discourage Travellers or Mariners from endeavouring to make these Observations as often and as carefully as possible, when they shall happen to be at any Place whose Longitude they have Reason to think has not been at all or but indifferently determined; fince the neceffary Calculations may be made at any Time afterwards by themselves, at leifure, or referred to the Skill of Astronomers and Mathematicians.

Eclipses of the Moon are not liable to this Inconvenience; the Longitude of any Place, where an Eclipse has been observed, being deduced immediately by taking the Difference of the Time of the Observation and that set down in the Ephemeris, and converting it into Degrees, at the Rate of 15 to One Hour, &c. or more briefly by Table Pages 6. 7, 8. of the Tables requisite to be used with the Ephemeris. But as the Beginning or Ending of an Eclipse of the Moon cannot be generally observed nearer than One Minute, and sometimes Two or Three Minutes of Time, the Longitudes of Places cannot be certainly determined by this Method from a single Observation of the Beginning or End nearer than a Degree. It is unnecessary to mention that even this Point of Exactness will often be of great Service. If both the Beginning and End of the Eclipse be observed, a considerably greater De-

gree of Exactness will be attained.

The Conjunctions of the Moon with the Planets, or fixed Stars not lefs than the fourth Magnitude, which may prove Occultations in some inhabited Parts of the Globe, are evidently defigned to instruct Mariners or Travellers to look out

frequently for fuch Observations; which if they happen to prove Occultations, and are carefully observed, will afford a certain Means of determining the Longitude of the Place of Observation.

The Days of the Oppositions, Quadratures, &c. of the Planets with Respect to the Sun, are Times at which they ought to be observed in fixed Observatories, for settling the Elements of their Orbits by a Series of several Years Observations.

The Two first Columns of the Second Page of the Month contain the Day of the Month and Week as before; next follow the Sun's Longitude, right Ascension in Time, Declination, and the Equation of Time, with the Difference from

Day to Day.

The Longitude of the Sun is made use of in most of the fucceeding Calculations of the Ephemeris, and may serve either to verify them, or to make other similar Calculations at a different Time of the Day. Particularly it may serve with the Help of the Moon's Longitude, to find the Distance of the Moon from the Sun at any Time, independent of the Distances contained in the Four last Pages of the Mon. To find the Sun's Longitude at any Time different from Noon, Proportion must be made according to its daily Increase: Saying as 24th, is to the Hour from Noon reckoned by the Moridian of Greenwich, so is the daily Variation of the Sun's Longitude, to a fourth Number; which added to the Sun's Longitude at the preceding Noon, gives the true Longitude

at the given Time.

If the Time given be that of a Meridian different from Greenwich, it must be first reduced thereto, by adding or fubstracting the Difference of Longitude turned into Time (at the Rate of One Hour to 15°, and One Minute of Time to 15 Minutes, or more briefly by Pages 6, 7, and 8, of the requifite Tables) according as the Place is to the West or to the East of Greenwich. Example: Suppose any one should want to know the Sun's Longitude, January 19, 1767, at 4h. 35'. being in 21° 15'. Longitude East of Greenwich. The Difference of Longitude turned into Time by Table Page 6, is 1h. 25' which substracted from 4h. 35', because the Place is East of Greenwich, leaves 3b. 10'. for the Time reduced to the Meridian of Greenwich. The Sun's Longitude the preceding Noon is, 95.29°. 181.211. and the following Noon is, 105.00. 191. 411. the Difference is, 10. 11. 211. or 611.211. the daily Variation. Then fay, as 24h. is to 3h. 10', fo is 61' 2" to 8', 3". which added to 90.29°. 18'.21', the San's Longitude on the preceding

preceding Noon, gives 9.29°.26'. 5" the Sun's Longitude at the Time given. In like Manner any other of the following Articles is to be found by the Help of the Ephemeris.

The Sun's Longitude ferves also to compute the Aberration

of the fixed Stars and Planets.

The Sun's right Ascension in Time is useful to the practisal Aftronomer in regular Observatories, who adjusts his Clocks by fidereal Time. It is also useful to him for converting apparent into fidereal Time; as suppose that of an Eclipse of Jupiter's Satellites, in order to know at what Time it may be expected to happen by his Clocks: For this Purpofe, the Sun's right Ascention at the preceding Noon, together with the Increase of right Ascension from Noon, must be added to the apparent Time of the Phænomenon fet down in the Ephemeris.

The Sun's right Ascension in Time serves also to compute the apparent Time of a known Star's passing the Meridian: Thus fubftract the Sun's right Ascension in Time at Noon from the Star's right Afcention in Time, the Remainder is the apparent Time of the Star's passing the Meridian nearly; from which the preportional Part of the daily Increase of the Sun's right Ascension for this apparent Time from Noon being subfracted, leaves the correct Time of the Star's passing

the Meridian.

Hence the apparent Time may be found from an observed Altitude of a known fixed Star, suppose one contained Page 12 or 13 of the requifite Tables; as will be explained here-

The Sun's right Afcention in Time is also useful for computing the Time of the Moon and Planets paffing the Meri-

dian, as will be shewn under their proper Articles.

The Sun's Declination is necessary to find the Latitude, whether at Sea or Land, from the Meridian Altitude observed; it is also requisite for finding the Latitude from Two Altitudes observed with the Interval of Time measured by a Watch; it ferves for computing the Sun's Azimuth, having his Altitude and the Latitude of the Place given, in order to find the Variation of the Compass; it is required jointly with the Latitude of the Place and the Sun's horary Angle to compute his Altitude, if neglected to be observed at the Time of taking the Moon's Distance from the Sun for finding the Longitude, being useful to facilitate the Calculation of the Effect of Refraction and Parallax upon the Diffance; it is also necessary to calculate the apparent Time from an observed Altitude of the Sun at a Distance from the Meridian, the Latitude being given; or to compute the Time of the Sun's Setting or Rifing; which, though a lefs accurate Method than the former of obtaining the Time, may yet be useful when that cannot be had. For any of these Purposes, the Sun's Declination must be found to the Time given nearly reduced to the Meridian of Greenwich, making Proportion according to the daily Increase or Decrease, in like Manner as was shewn with Respect to the Sun's Longitude.

The Equation of Time is a Correction, which added to or fubstracted from the apparent Time (according to its Title at the Top of the Column) gives equated or mean Time, or that which should be shewn by a good Clock or Watch. Apparent Time is that which takes its Beginning from the Paffage of the Sun's Centre over the Meridian of any Place; and had the Sun no Motion in the Ecliptic, or was his Motion reduced to the Equator or in right Afcention uniform, he would always return to the Meridian after equal Intervals of Time. But his apparent Motion in the Ecliptic being continually varying, and his Motion in right Afcention being rendered further unequal on Account of the Obliquity of the Ecliptic to the Equator, from these Causes it arises that the Intervals of his Return to the Meridian become unequal, and the Sun will gradually come too flow or too foon to the Meridian for an equable Motion, fuch as that of Clocks and Watches cught

This Retardation or Acceleration of the Sun's coming to the Meridian is called the Equation of Time, and is contained in the last Column but One of Page 2d; and when applied according to its Title to the Apparent Time, or that deduced immediately from the Sun, gives the mean or equated Time, whence the Error of a Clock or Watch may be found, and, if required, it may be corrected.

If it is proposed to convert mean Time into apparent, this is done by a contrary Process, by applying the Equation of Time to the mean Time given, with its Title or Sign changed; viz. substracting instead of adding, and adding in-

flead of fubffracting.

The Equation of Time being fet down in the Ephemeris for the Noon at Greenwich, Proportion must be made according to the daily Difference, to find what it should be at any given Time reduced to the same Meridian, as in the preceding Articles. The last Column of this Page, containing the daily Differences of the Equation, is designed for this Purpose,

As often at it may be required to make any Calculations from aftronomical Tables, and the Time given be apparent Time; it is necessary first to apply the Equation of Time thereto to convert it into mean Time, the Tables being disposed according to mean Motions. Thus the Articles contained in the Ephemeris answering to Noon were computed to 0h, increased, or 24 Hours diminished, by the Equation of Time: And the Moon's Places set down for Midnight were computed to 12h, increased or diminished by the Equation of Time.

What has been shewn concerning the Equation of Time chiefly respects the Astronomer, the Mariner having little to do with it in computing his Longitude from the Moon's Distances from the Sun and Stars observed at Sea with the Help of the Ephemeris, all the Calculations thereof being adapted to apparent Time, the same which he will obtain by the Altitudes of the Sun or Stars in the Manner hereafter

prescribed.

But if Watches made upon Mr. John Harrison's or other equivalent Principles should be brought into Use at Sea, the apparent Time deduced from an Altitude of the Sun must be corrected by the Equation of Time, and the mean Time found compared with that shewn by the Watch, the Difference will be the Longitude in Time from the Meridian by which the Watch was set; as near as the Going of the Watch

can be depended upon.

The Equation of Time was computed for the Ephemeris of 1767 from the Table, Page 3d of Mayer's Tables; but on Account of that Table being made only to the nearest Second without Decimals, and the Neglect of the small Equations of the Sun, the Calculations of that Article in the Year 1767, cannot always be depended upon nearer than Two Seconds. For the Year 1768 and the following Years it will be computed in the strict Manner explained in my Remarks upon that Subject, in the Philos. Transact. Vol. liv. P. 342 for the Year 1764; namely, by taking the Difference of the Sun's true right Ascension, and his mean Longitude corrected by the Equation of the Equinoxes in right Ascension, and turning it into Time at the Rate of 1', to 15'. Co. The Equation of Time will be additive or substractive as the Sun's true right Ascension is greater or less than his mean Longitude.

The Semidiameter of the Sun, Page 3d, is necessary to reduce the observed Altitude of his upper or lower Limb to that

of the Centre; also to reduce the observed Distance of the Moon's nearest Limb from the Sun's nearest Limb to the Diftance of the Centres. It is also useful to Astronomers to verify or afcertain the Exactness of the Scale of their Micrometers, by Comparison with the Measure of the Sun's horizontal Diameter. This Practice is particularly useful in folar Eclipses, when the Distance of the Cusps or the Verse Sine of the uneclipfed Part has been measured with the Micrometer. The Semidiameters of the Sun in Mayer's Tables, on which all the Calculations respecting the Sun and Moon are made, suppose the Semidiameter at the mean Distance to be 16'.2", 8. which Mr. Mayer fays he deduced from above 130 Observations taken with his Six Foot mural Quadrant, which feemed to him not ill adapted to the Purpofe. It may not be amiss to take this Opportunity to remark that the Quadrant here mentioned was given to the University of Gottingen by his late Majesty, and was made by Mr. John Bird after the Model of the Eight Foot mural Arch, which he finished for the Royal Observatory at Greenwich, and put up there in the Year 1750. Mr. Mayer made his Observations with his Six Foot mural Arch, from the Year 1756, to the Time of his Decease; with it he settled the mean Obliquity of the Ecliptic to the Beginning of the Year 1756, at 23°. 28'. 16". which Dr. Bradley fettled by his Observations made in the Years 1750 and 1751, at 23°. 28'. 18". The Difference is agreeable to what ought to arise from the gradual Diminution of the Obliquity of the Ecliptic at the Rate of about 1 a Second in a Year. The fame Inftrument he also used in settling the Elements of his folar Tables: and it is most probable that with the fame he fettled his Table of Refractions at the End of his folar Tables; the Agreement of this Table with Dr. Bradley's, fee Page 2d of requifite Tables, (being both fuited to the same Temperature of the Air) is so great, that they feem rather like One and the fame than Two different Tables.

The Time of the Sun's Semidiameter passing the Meridian, ferves to reduce an Observation of a Transit of the preceding or subsequent Limb over the Meridian to that of the Centre, when only One was observed. It signifies a Portion of apparent Time, or even mean Time, the Difference being absolutely insensible upon so small an Interval. It is found thus: Increase the Sun's Semidiameter in the Radio of the Cosine of his Declination to the Radius, to find his Semidiameter in right Ascension, which turned into Time at the Rate of 1/, to 15/, and 1/1, to 15/1, gives the

Time

Time required. The Sun's Semidiameter in right Afcenfion is readily found by adding the Log. Cofine of his Declination to the logiftic Logarithm of his Semidiameter, the Sum is the logiftic Logarithm of his Semidiameter in right Afcenfion; which divided by 15 gives the Time of his Semidiameter paffing the Meridian. If the Clock by which the Observation is made be regulated according to sidereal Time, this Quantity must be increased in the Ratio of 365 to 366, if great Preci-

fion is required.

From the Time of the Sun's Semidiameter passing the Meridian may be also found the Time of its passing the horizontal or vertical Wire of a Quadrant or Sextant, which on fome Occasions may have its Use.—The hourly Motion of the Sun is uleful in computing folar and lunar Ecliples; also in correcting the affumed Longitude of the Ship, in order to find the Time from an Observation of the Distance of the Moon from the Sun, independant of the Distances contained in the nautical Ephemeris; See British Mariner's Guide, Page 49, and Table at the End of the fame, Page 25, which is also copied at Page 14 of requisite Tables. The Logarithm of the Sun's Distance is useful in the Calculation of the Places of the Planets and Comets. The Place of the Moon's Node fignifies its mean Longitude, and is necessary for finding the Equation of the equinoctial Points both in Longitude and right Ascension, the Equation of the Obliquity of the Ecliptic, and the Deviations of the fixed Stars in right Afcenfion and Declination.

The Eclipses of Jupiter's Satellites are well known to afford the readiest, and for general Practice the best Method of fettling the Longitudes of Places at Land; and it is by their Means principally that Geography has been fo much reformed within a Century past, and the Position of the most distant Places determined to equal Accuracy with the nearest. It was hoped that fome Means might be found of using proper Telescopes on Shipboard to observe these Eclipses, and could this be effected, it would be of great Service in afcertaining the Longitude of a Ship from Time to Time. In my Voyage to Barbadoes under the Direction of the Commissioners of Longitude, I made a full Trial of the late Mr. Irwin's Marine Chair proposed for this Purpose, but found it totally imprace ticable to derive any Advantage from the Use of it; and, confidering the great Power requifite in a Telescope for making these Observations well, and the Violence as well as Irregularitie Irregularities of the Motion of a Ship, I am afraid the complete Management of a Telescope on Shipboard will always remain among the Desiderata. However, I would not be understood to mean to discourage any Attempt founded

upon good Principles to get over this Difficulty.

The Telescopes proper for observing the Eclipses of Jupiter's Satellites, are common refracting Telescopes, from 15 to 20 Feet, reflecting Telescopes of 18 Inches or Two Feet, and Telescopes of Mr. Dollond's Construction with Two Object Glasses from Five to 10 Feet; or, which are still more convenient, those of 3½ Feet, which he has lately found a Method of constructing with Three Object Glasses, which are as manageable as reflecting Telescopes, and perform as much as those which he makes of 10 Feet with Two Object Glasses.

The Eclipses of Jupiter's Satellites are observed by Astronomers at Land, as well in order to provide Materials for improving the Theories and Tables of their Motions, as for the fake of Comparison with the corresponding Observations which may be made by Perfons in different Parts of the Globe, whereby the Longitude of fuch Places will be accurately afcertained. It is indeed to be lamented that Perfons who vifit diffant Countries are not more diligent to multiply Observations of this Kind, for want of which, the Observations made by Aftronomers on Shore lofe Half their Ufe, and the Improvement of Geography feems to be at a Stand. But it is to be hoped that an Emulation will fpring up among those who may have Opportunities of rendering to useful a Service to the Public, to incite them to watch diligently for the Occafions of observing these Eclipses carefully, particularly of the First and Second, which are most exact for the Purpose. The Ecliples carefully calculated and fet down in the Ephemeris, will ferve to advertife them and Observers in general of the Times when they should attend to these Observations. The Person who shall be under any Meridian different from Greenwich, must turn his Difference of Longitude into Time: See Table Page 6, 7, and 8, and add it to or substract it from the Time of the Eclipse set down in the Ephemeris, according as he is to the East or West of Greenwich, to find the apparent Time at which the Eclipse will happen at his Meridian, nearly. He must further take care to regulate his Watch or Clock by apparent Time, or at least to know the Difference, as well in order to apprife him of the Time to look out for

the Eclipse, as for ascertaining the apparent Time exactly at which he shall observe it. Equal Altitudes of the Sun or Stars taken with an aftronomical Quadrant afford the beft Means of regulating Clocks and Watches for occasional Observations; or they may be taken with a Hadley's Quadrant, by Reflection from a Bason of Water or Quickfilver, or from the Horizon of the Sea, if the Observer has an open Prospect, and is not elevated above 5 or 600 Feet above the Level of the Sea. But, # Opportunity does not admit of taking equal Altitudes, the Time may be determined from One Altitude taken in any of the Methods above mentioned, at least Two or Three Points of the Compass distant from the Meridian, but the nearer to the East or West the better, the Latitude of the Place being known, or being found by Observations of the Meridian Altitude of the Sun or Stars made on Purpofe. It will be better to take feveral Altitudes in order to take a Mean of the Refults for greater Certainty. The Manner of computing the apparent Time from the Altitude of the Sun or a Star, will be observed when we come to treat of the Method of finding the Longitude by the Observations of the Diffance of the Moon from the Sun and Stars by the Help of the Ephemeris.

The Observer being in a Place whose Longitude is well known, flould be fettled at his Telescope Three Minutes before the expected Time of an Immersion of the first Satellite; Six or Eight Minutes before that of the fecond and third Satellites; and a Quarter of an Hour or more before that of the fourth Satellite; chiefly on Account of the Uncertainty of their Theories; but, if the Longitude of the Place is very uncertain, he must begin to look out for the Eclipse proportionably fooner: Thus if the Longitude of the Place is uncertain to 30 Degrees, answering to 12 Minutes of Time, he ought to fix himself to his Telescope 12 Minutes sooner than is mentioned above. Nevertheless when he has observed One Eclipse of any Satellite, and thereby found the Error of the Tables, he may allow the fame Correction to the Calculations of the Ephemeris for feveral Months, which will advertife him very nearly of the Time of expecting the Eclipses of the same Satellite, and dispense with his attending so long,

The Immersions signify the Instant of the Disappearance of the Satellite by entering into the Shadow of Jupiter; and the Emersions signify the first Instant of its Appearance at com-

ing out of the fame. They generally happen when the Satellite is at some Distance from the Body of Jupiter, except near the Opposition of Jupiter to the Sun, when the Satelhite approaches nearer to his Body. Before the Opposition of Jupiter to the Sun the Immersions and Emersions happen on the West Side of Jupiter, and after the Opposition on the East Side; but if an astronomical Telescope be used, which reverses Objects, the Appearances will be directly the contrary. Before the Opposition, the Immersions only of the first Satellite are visible; and after the Opposition, the Emersions only. The same is generally the Case with respect to the second Satellite; both the Phænomena of the same Eclipse are frequently observeable in the Two outer Satellites. The Immersions and Emersions marked with an Afterisk in the

Ephemeris are those visible at Greenwich.

To know if an Eclipse will be visible in any Place, find if Jupiter is 8°, or 10°, above the Horizon of the Place, and the Sun as much below it. This may be done near enough by a celeftial Globe: Otherwife, the Time of the Sun's Rifing and Setting may be found for any Latitude by a Table of femidiurnal Arcs, contained in the popular Book called the Mariner's Compass Rectified, and many other Books; the Time of Jupiter's Rifing and Setting may also be found from the Time of his paffing the Meridian and Declination fet down in the Ephemeris, with the Help of the fame Table of femidiurnal Arcs; adding or fubftracting the femidiurnal Arc answering to the same Declination of the Sun: Remembering always that if Jupiter's Declination and the Latitude of the Place are of the fame Denomination, the femidiumal Arc will be more than Six Hours, and if they are of contrary Denominations, it will be lefs than Six Hours.

The Immersion or Emersion of any Satellite being carefully observed in any Place according to apparent Time, the Longitude from Greenwich is found immediately by taking the Difference of the Observation from the corresponding Time shewn in the Ephemeris, which must be turned into Degrees, U.c. by Table Page 5, 7, and 8; and will be East or West of Greenwich, as the Time observed is more or less than that

of the Ephemeris,

Example: Suppose an Emersion of the first Satellite should be observed at the Cape of Good-Hope, May 9, 1767, at 10th 46'. 45". apparent Time: The Time by the Ephemeris

being 9^h. 33'. 12". the Difference is 1^h. 13'. 33". whence by Table Page, 6, 7, and 8, the Longitude of the Cape should be 18°. 23' 15". East of Greenwich, because the Time supposed to be observed at the Cape is more than that of the

Ephemeris.

It may not be useless here to observe that the Longitude of the Cape of Good Hope 1h. 13'. 33"=18°. 23'. 15". fet down in the British Mariner's Guide, is that of the Town; the Latitude also belongs to the same; being both determined from the Observations of Messrs. Mason and Dixon, who went thither under the Direction of the Royal Society, and observed the Transit of Venus in the Year 1761. Hence, by the Help of the Charts, I find the Longitude of the Cape Point or Promontory 18°. 45'. East of Greenwich, and its Latitude 34°. 30'. S. the Longitude of Cape Falso, 19°. 15'. E. and its Latitude 34°. 34' S. If these Determinations of the Situations of the Cape Point and Cape Falfo are in any respect uncertain, it arises from the Impersection of the Charts I was obliged to make use of, in reducing the Longitude and Latitude from the Cape Town to the Two mentioned Points: For from the near Agreement of the Abbeé de la Caille's Observations with those of Mossis. Mason and Dixon, it is probable that the Situation of few Places is better determined than that of the Cape Town: But if any one has Possession of any Manufcript or printed Charts of these Parts that he thinks may be depended upon, or has any Opportunity of determining the Points in Question relatively to each other from the Comparison of several Journals of Ships, he may perhaps fix these Places with more Certainty than is here pretended

It is to be observed that a correspondent Observation of an Eclipse of a Satellite of Jupiter, made under a well known Meridian, is to be preferred to the Calculations of the Ephemeris for comparing with an Observation made in a Meridian whose Longitude is required; but if no corresponding Observation can be obtained, as is frequently the Case, it will be best to find what Correction the Calculations of the Ephemeris require by the nearest Observations to the given Time that can be obtained; which Correction applied to the Calculation of the given Eclipse in the Ephemeris, renders it

almost equivalent to an actual Observation.

The Longitudes and Latitudes of the Planets, Page 4, ferve to know where to look for them in the Heavens, and

when their Places may be conveniently fettled by comparing them with fixed Stars by the Help of a Micrometer in a Telefcope. They also shew when they are in the most important Points of their Orbits, where it is most material to observe them. They also serve to enable Persons less skilled to distinguish them from the fixed Stars. Their Declinations and apparent Time of passing the Meridian are particularly useful to Astronomers who are furnished with Quadrants and Transit Instruments well fixed in the Meridian, in setting their Instruments for observing their right Ascensions and Declinations.

The apparent Time of a Planet's passing the Meridian may be computed thus; the Planet's right Ascension being calculated from its Longitude and Latitude, and turned into Time, substract the Sun's right Ascension at Noon in Time from it, to find the Time of the Planet's passing the Meridian nearly, which call T; take the Difference of the O and Planets daily Variations in right Ascension in Time; if the Planet is progressive in right Ascension, or the Sum if it is retrograde, which

call X; then fay, by the Rule of Proportion;

As 24h = X: T:: X: e and T± will be the correct Time of the Planet's passing the Meridian. The upper Signs are to be used both to X and e if the Planet's progressive Motion in right Ascension be greater than that of the Sun; in any other

Cafe the lower Signs are to be made use of.

But perhaps it may be found more readily by continual Approximation as follows: Take the proportional Part of the Difference or Sum of the O and Planet's daily Motion in right Ascension, answering to the Time of the Planet's passing the Meridian, found nearly, in Proportion to 24^h, and take a further like proportional Part of this proportional Part; and again of this last, and so on as far as is necessary. The Sum of all these proportional Parts added to the Time of the Planet's passing the Meridian sound nearly, if the Planet's progressive Motion in right Ascension is greater than that of the Sun, otherwise substracted, gives the apparent Time of the Planet's passing the Meridian.

Example: Let it be required to find the Time of the

Moon's passing the Meridian, July 1 1767.

The Sun's right Ascension in Time July 1st is, 6h, 40', 25", and July 2d, 6h, 44', 33". by the Ephemeris. Therefore his daily Motion in right Ascension is 4', 8". The Moon's right Ascension July 1st at Noon by the Ephemeris, is 159°, 2', antivering to 10h, 36', 8". of Time, and July 2d is, 169°, 39', antivering

Twering to 10th. 181. 36". The Difference is, 421. 28". of Time, from which 4'. 8". being substracted leaves 38', 20". Substract 6h, 40' 25". the Sun's right Afcention July 1st, at Noon from 104. 36'. 8", the Moon's right Ascention the same Noon, the Remainder 3h. 55'. 43". is the Approximate Time of the Moon's paffing the Meridian. The proportional Part of 38'. 20" answering to this, is 6'. 17" and the proportional Part of 6'. 17". is 9"; therefore 6'. 17" and 9" or 6'. 26" added to 3h. 55'. 43" give 4h. 21. 9", the apparent Time of the Moon's pathing the Meridian. In the Ephemeris it is 4 h. 2'. It may also be computed by taking the Difference of the Moon's right Afcenfiens at Noon and Midnight, but then half the Sun's daily Variation in right Ascension must be made use of, and Proportion must be made for 12 instead of 24 Hours: And if the Moon passed the Meridian after Midnight, the Sun's right Afcention at Midnight must be used, which is a Mean between his right Afcentions on the preceding and fubfequent Noon. For the Planet's, it will be fufficient to take the

first proportional Part only:

The Configurations of Jupiter's Satellites, Page 5, exhibit the apparent Politions of the Satellites with respect to each other, and to Jupiter at fuch an Hour of the Evening or Night as they are most likely to be observed, and serve to distinguish the Satellites from one another. Jupiter is diffinguished by the Mark O, and the Satellites by Points with Figures annexed, the Figure 1 fignifying the first Satellite, 2 the second Satellite, &c. When the Satellite is approaching towards Jupiter, the Figure is put between Jupiter and the Point; and when the Satellite is receding from Jupiter, the Figure is put on the other Side of the Point. The Satellites are in the fuperior Parts of their Orbits, or furthest from the Earth, when they are marked to the right Hand or West of Jupiter approaching him; or to the left Hand or East of Jupiter receding from him; but are in the inferior Part of their Orbits, or nearest to the Earth, when they are marked to the right Hand or West of Jupiter receding from him, or to the left or East of Jupiter approaching him. The Cypher o fometimes annexed to the Figure of the Satellite towards the Margin, fignifies that it is invitible on the Face of Jupiter; and the black Mark ., fignifies that it is invifible, being eclipfed in Jupiter's Shadow, or behind Jupiter, and eclipfed by his Body.

The 7th and 5 following Pages of each Month contain the Moon's Place, and all the Circumstances relating to her Motions, and her Diffances from the Sun and proper Stars, from which her Diffance should be observed for finding the Longitude at Sea. The Longitudes, Latitudes, and Declinations of the Moon, and Time of her passing the Meridian, afford the like Uses with the same Circumstances of the Planetary Motions, and many more besides. For the sake of greater Precision, the Moon's Longitude, Latitude, Right Ascension, Declination, Semidiameter, horizontal Parallax, with its logistic or proportional Logarithm, are computed twice a Day, to Noon and Midnight, and may readily be inferred to any intermediate Time with the greatest Exactness.

Example: Let it be required to find the Moon's Longitude and Latitude, &c. July 16, 1767, at 16h. 22' 16". First to find the Longitude. The Moon's Longitude, July 16, at 12h. is 0°. 6°. 40'. 25". and July 17 at Noon, 0°. 13°. 47'. 48". the Difference 7°. 7'. 23". is the Moon's Motion in 12 Hours:

fay then, by the Rule of Proportion,

As 12h. is to 4h. 22'. 16". (the Excess of 16h. 22'. 16". above 12h.) fo is 7°. 7'. 23". to 2°. 35'. 41". which added to 0°. 6°. 40'. 25". the Moon's Longitude at 12h. gives 0°. 9°. 16'. 6", the Moon's Longitude nearly; but this must be corrected on Account of the Moon's unequal Motion in 12 Hours, by Page 11 of requisite Tables; for this Purpose take out of the Ephemeris the Two Longitudes of the Moon next preceding the given Time, and the Longitudes immediately following it, and set them down in Order one after another, as follows.

Art Service Avenue	1ft Diff.	2d. Diff.
July 16, Noon 11, 29, 29, 34, Midnight o. 6, 40, 58, 17, Noon o. 13, 47, 24, Midnight o. 20, 51, 27.	7. 10 51. 7. 7. 23. 7. 3. 39.	, ,, 3. 28. 3. 44.

Take their Differences, 7°. 10′. 51″. 7°. 7′. 23″. 7°. 3′. 39″. take the Differences of these Differences, or the 2d Differences, 3′.28″.3′. 44″. and taketheir Mean which is 3′.36″. Now look for the Correction in Page 11 of requisite Tables answering to 4^h. 22′ after Midnight, found on the Side, and 3′ 36″ at Top, 21″ will be found under 3′. and 28″. under 4′. the the Difference is 7″. whence 36″ will require 4″, and the Correction sought is 21″+4′=25″. which, according to the Remark at the Bottom of the Table, must be added (because

cause the Motion in 12 Hours or first Differences are decreasing to 0° 9° 16′. 6′′. the Moon's Longitude found by even Proportion; whence the Moon's true Longitude is 0° 9° 16′. 31′′. and is as correct as the Longitudes from which it is deduced.

N. B. If the first Differences of the Four Longitudes of the Moon taken out first increase and then decrease, or, vice versa, first decrease and then increase, take half the Difference of the Two second Differences for the Mean second Difference, with which take the Correction from Page 11, and add or substract it as the 1st. first Difference is greater or less

than the third first Difference.

To find the Moon's Latitude. Take out of the Ephemeris the Two Latitudes preceding and Two following the given Time, and fet them down in Order, and take their first and second Differences, and the mean of the Two fecond Differences; find the proportional Part of the Middle first Difference answering to the Hours and Minutes, &c. of the given Time after Noon or Midnight; which correct in the following Manner: Entering Table Page 11 with the Hour from Noon or Midnight on the Side, and the mean fecond Difference at Top, take out the corresponding Number of Seconds, which added to or fubftracted from the proportional Part found above, according as the Motion in 12 Hours or first Differences are decreasing or increasing; or, more generally, according as 1st first Difference is greater or less than third first Difference, gives the proportional Part corrected; which now added to or fubthracted from the Moon's Latitude at the preceding Noon or Midnight, as the Latitude in thefe 12 Hours is increasing or decreasing, gives the Mcon's Latitude correct.

Example: The Moon's Latitude is required, July 16, 16h.

221, 1611,

D's Lat. by the Ephem.		rft Dif.		2d Dif.	Meanof 2d Dif.			
17 N	oon 4 ight 4 ioon 5 ight 5	49	36	1. 18 13 9	11. 26 50 6	1. 11. 4 36 4 44	1. 4	11.

The

The Moon's Latitude July 16 at Midnight being 49. 49%. N. and the Motion in the next 12 Hours being 13% 50%.

fay by Proportion;

As 12h. is to 4h. 22'. 16". fo is 13'. 50". to 5'. 2"; but this must be corrected by adding 33". the Correction from Page 11, answering to the Hour 4h. 22!. and the Mean Second Difference 4' 40", because the first Differences are decreasing, or rather because the first of them 18'. 26". is greater than the last of them 9'. 6". therefore the proportional Part corrected is 5'. 2". +33"=5'. 35", which added to 4e. 49'. 36". gives 4e. 55' 11". N. the Moon's Latitude correct.

Remarks on fome Circumflances necessary to be attended to, in order to obtain and apply the Correction of second Dif-

ferences rightly in computing the Moon's Latitude.

I. If the Moon's Latitude taken out of the Ephemeris for Noon and Midnight changes its Denomination from North to South or from South to North, the Sum of the Two Latitudes of contrary Denominations, where the Change happens, is to be accounted the first Difference in that Place.

II. If the Three first Differences first increase and then decrease, or vice versa, first decrease and then increase, Half the Difference of the Two second Differences is to be taken for

the mean fecond Difference.

III. If the Series of Four Latitudes taken out should first increase and then decrease about the Moon's greatest Latitudes, take the Sum of the Two first Differences standing on each Side of the greatest Latitude for the second Difference in that Place; correct the Moon's Latitude at Noon or Midnight by the simple proportional Part first sound; and to the Latitude so corrected, add always in this Case the Correction from Table Page 11, answering to the Mean of the Two second Differences.

Before I quit this Subject of Interpolation by fecond Differences, I shall point out another Method, by which the same End may be obtained more readily, and with sewer Rules, by those who are well acquainted with algebraical Substraction and Addition, and the Manner of applying the Signs in those Operations. Substract each Latitude from the following for the first Differences, to which prefix the Sign—if the Latitudes decrease; and substract each first Difference, thus found, from the following one of the same Order for the second Differences. Half the Sum of the Two second Differences.

ferences

ferences flanding on each Side of the Interval to be interpolated, is to be accounted the mean fecond Difference; the Correction corresponding to it by Table Page 11, is to be

applied always with the contrary Sign.

These Operations are to be performed, and the Signs to be applied as in algebraic Substraction and Addition. Note further, if the Four given Latitudes change their Denomination, call the second Latitude, and those of a contrary Denomination.

The Moon's Declination may be found at any Hour in the fame Manner as her Latitude; but as the Correction arifing from fecond Differences will never exceed $2\frac{\pi}{2}$, this may be neglected on most Occasions: but if any one is desirous to obtain the Declination true to a Minute, the Correction is easily

applied, as shewn above.

The other Articles of Page 7, and 8, viz. the Moon's right Ascension, her Semidiameter, horizontal Parallax, with its Logarithm, and the Distances contained in the Four last Pages of the Month, may be all found correctly by even Proportion, without requiring any Allowance on Account of second Disterences. The proportional Part of the Moon's Longitude, &c. for any Hour, may be found very readily by the Help of the Table of proportional Logarithms at the End of the requisite Tables: For which consult the Explanation of those Tables.

The Moon's Longitude and Latitude are used in computing her Diffances from the Sun and Stars contained in the Four laft Pages of the Month, as well as in the Appulfes to Stars pointed out in Page 1, and, jointly with her Parallax and Semidiameter, are necessary for computing the Eclipses of the Sun and Moon, and the Occultations of fixed Stars and Planets by the Moon. They also facilitate the Calculation of the Longitude of any Place from an Eclipse of the Sun, or an Occultation of a Star or Planet by the Moon observed: Or, if the Meridian be well known, the Parallax and Semidiameter ferve to deduce the Moon's true Place in the Heavens from the Observation, which compared with that given by the Ephemeris shews the Error of the Tables, whatever it be at that Time. The Moon's Semidiameter and Parallax are applied in corect-The logiffic Loing almost all Observations of the Moon. garithms of the Moon's Parallax, ferve further to facilitate the Calculations of Parallaxes, but if the Table of proportional Logarithms at the End of the requisite Tables be made use, of, which will be most convenient; the constant Quantity 0.4771 must be added to the logistic Logarithms of the Moon's horizontal Parallax contained in the Ephemeris of 1767, to reduce them to proportional Logarithms. It will be more convenient to substitute proportional Logarithms of the Moon's Parallax instead of the logistic Logarithms in a fu-

ture Ephemeris.

The Moon's right Afcension and Declination are useful to compute her Altitude at any Time, particularly at the Obfervation of her Diffance from the Sun or a Star, supposing it was neglected to be or could not be observed properly; which latter Cafe may fometimes happen in the Night, though I think but rarely; the utmost Accuracy not being required for the Calculations of Refraction and Parallax. See British Mariner's Guide. Page 57. The Moon's Declination, with her Semidiameter and Parallax, serve for finding the Latitude by the Meridian Altitude of her upper or lower Limb observed at Sea. See British Mariner's Guide, Page 93. The Moon's right Ascension and Declination serve also to compute the Time from her Altitude observed at the Observation of her Diffance from a Star; whence the Longitude may be inferred, though no Altitude of the Sun or a Star was taken for regulating the Time. See British Mariner's Guide, Page 61.

The Diffances of the Moon from the Sun and fixed Stars, contained in the Four last Pages of the Month, are set down to every Three Hours of Apparent Time by the Meridian of Greenwich, and are designed to relieve the Mariner from the Necessity of a Calculation, which he might think prolix and troublesome, and to enable him, when compared with the same Distances observed carefully at Sea, to infer his Longitude readily and with little Danger of Mistake to a Degree of Exactness that may be thought sufficient for most nautical Purposes. But useful and valuable as the Practice of this Method may be at present, it is a Remark not unworthy our Notice, that there is Room to hope, by suture Improvements of the lunar Tables, and the Introduction of a more accurate Method of constructing Instruments, it may

be carried to a much higher Degree of Perfection.

The Moon's Distance are computed both from the Sun and proper Stars, and generally from One Object on each Side of her, to afford the Mariner a greater Number of Opportunities of Observation, and a Means of attaining a greater Degree of Exactness. The Distances from the Sun

are computed between 40° and 120° of Diffance. While the Moon is between the Distances of 20° and 40° from the Sun, her Distance is computed only from a Star on the contrary Side that the Sun is. When the is between the Diftances of 40° and 90° from the Sun, her Distance is computed both from the Sun and from a Star on the contrary Side to the Sun; when the Moon is above 90° from the Sun her Diftance is computed from Two Stars, one on each Side of her; though still her Distance is computed also from the Sun from 90° to 120°. Though the Diftance of the Moon from the Sun or Star, well observed with a good Instrument, is sufficient to determine the Longitude, with the Help of the Ephemeris, always within a Degree, and generally much nearer, yet it will conduce to ftill greater Accuracy, if the Observer takes the Distance of the Moon from Two Stars, or the Sun and a Star, or, when the Moon is between go and 1200 Distance from the Sun, from the Sun and Two Stars, if he can be fo lucky as to obtain these several Observations.

The Longitude being computed from the Observations made with each Star respectively, the Mean of the Results is to be taken as probably approaching nearest to the true Longitude. In particular the Moon's Distance should be taken from Two Stars, or the Sun and a Star on each Side of her, as often as Opportunity permits, fince the Mean of the Refults will probably be at least as exact again as either separately, I mean as far as depends on any Imperfection of the Instruments. and unavoidable fmall Errors arifing in the Use of them; Errors of these Kinds having a natural tendency to correct each other; for that fmall Error which arifes from the lunar Tables will affect the Refult from either Star equally. But the Error of Mr. Mayer's last lunar Tables here made use of, scarce ever exceeding 1' at the most, and seldom amounting to 20". the Uncertainty hence arising in the Determination of the Longitude can fcarcely exceed half a Degree, and generally will

not exceed 10 Miles.

The Distances set down in the Ephemeris, afford the Obferver a ready Means of knowing the Star from which the Moon's Distance is to be observed; for he has nothing to do but to set his Quadrant to the Distance computed roughly from the Ephemeris, neglecting the Seconds, at the apparent Time estimated nearly by the Meridian of Greenwich; and direct his Sight to the East or West of the Moon, according as the Distance at Greenwich is found in Page 9 and

10, or in Two last Pages of the Month; and having found the Moon upon the little Speculum, let him give a Sweep with the Quadrant to the Right and Left, and he will find the Star he feeks for, if above the Horizon and the Air be clear. nearly in a Line perpendicular to the Line of the Moon's Horns or longer Axis, or, which is the fame Thing, in the Line of the Moon's shorter Axis preduced. The Star is always one of the brightest, so that there is little Danger of mistaking another for it, if the preceding Directions are carefully observed. The Time at Greenwich is estimated nearly by turning the supposed Longitude from Greenwich into Time, by Table Page 6, 7, and 8, and adding it to or Substracting it from the Apparent Time at the Ship, as its Longitude is West or East of Greenwich. It will be sufficient if the Distance be computed from the Ephemeris within 10% or 20' for fetting the Quadrant. The principal Use of the Distances of the Moon from the Sun and fixed Stars; namely, in determining the Longitude by Comparison with the corresponding Distances observed at Sea, will be shewn hereafter in its proper Order, in the Differtation explaining the Method of computing the Longitude at Sea by the Help of the Ephemeris.

The Diffances contained in the Ephemeris were computed firictly to Noon and Midnight, and thence interpolated for every Three Hours, according to the Method flewn for computing the Moon's Latitude, Page 17-19: Except that the Correction of fecond Differences at the Middle of the Interval to be interpolated, was taken i of the Mean of the Two fecond Differences, and at the first and third Quarter of the Interval was taken & of the Correction just found at the Middle of the Interval; intlead of confulting Table Page 11, which would however have given the fame Refult. But, at the first 12 Hours when the Distances of the Moon from a Star begin, and the last 12 Hours when the Distances end, there being only One fecond Difference inftead of Two fecond Differences on each Side to take a Mean of, this Method fails in these Cases, and therefore the following is to be fubflituted in its flead, being derived from Sir Isaac Newton's Solution of the Problem of drawing a Curve through the Extremities of any Number of given Ordinates. Phil. Nat.

Princ. Math. Page 486. Edit. ult.

From Four Diffances at Noon and Midnight computed strictly, to interpolate Three Diffances at the 3d, 6th, and 6th Hour of the first or last Interval.

Substract

Substract each Distance from the following, for the first Differences, and prefix the Sign —, if the Distances decrease. Substract each first Difference thus found from the following one of the same Order, for the second Differences: And in like Manner substract the first 2d Difference from the following for the third Difference; applying the Signs as in algebraic Substraction. Denote the first or last first Difference by b, the first or last second Difference by c; according as the Interpolation to be made is for the first or last 12 Hours, denote also the third Difference by d; and, a being put to signify the Distance at the Beginning of the Interval, the interpolated Distances will be as follows:

At 3d Hour of first Interval At 6th Hour of first Interval At 9th Hour of first Interval Or	$ \begin{array}{l} a + \frac{1}{4}b - \frac{3}{32}c + \frac{7}{124}a \\ a + \frac{7}{2}b - \frac{1}{8}c + \frac{7}{45}d \\ a + \frac{3}{4}b - \frac{3}{32}c + \frac{5}{226}d \end{array} $
At 3d Hour of last Interval At 6th Hour of last Interval At 9th Hour of last Interval	$ \begin{array}{c} a + \frac{1}{4}b - \frac{3}{32}c - \frac{5}{12}v d \\ a + \frac{1}{2}b - \frac{1}{8}c - \frac{1}{16}d \\ a + \frac{3}{4}b - \frac{3}{32}c - \frac{7}{12}v d \end{array} $

In adapting these Formulæ to Numbers, great Care must be taken about the right Application of the Signs. Thus if b, c or d is Negative, apply the Number expressing the Value of that Term of the Formula where it is found with a contrary

Sign to that of the Formula.

Let me add in this Place, that if in filling up the first and last Intervals, a new second Difference has been supposed in arithmetical Progression with the Two given ones, in order to take a Mean between it and the first or last second Difference, the Interpolation at the Middle of the Interval or 6th Hour will be had true, the same as if the above Formulæ had been used: But at the Interpolation of the first and third Quarter there will be an Error of $\frac{1}{12}$ third Difference; which will be corrected, by applying $+\frac{1}{12}$ d or third Difference, to Number found at the first Quarter of the Interval, and $-\frac{1}{12}$ d to that found at the third Quarter of the Interval; equally the same whether it be the first or last Interval.

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